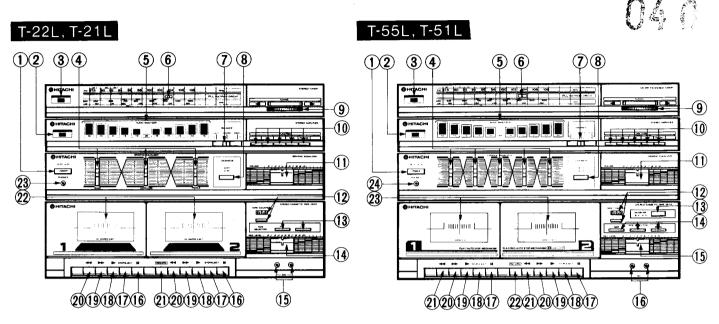


TY

No. 464 EGF

T-22L, T-21L T-55L, T-51L (BS, SA, KS, ZS)



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- The turntable section changes depending upon destination. The disassembly drawing and parts list of each turntable are shown in this service manual.
- Der Plattenspielerabschnitt unterscheidet sich je nach dem Bestimmungsland. Die zerlegungszeichnung und Teileliste für jeden plattenspieler sind in diesem wartungshandbuch enthalten.
- La section du plateau tourant varie en fonction des pays destinés. Le plan de démontage et le liste des pièces de chaque plateau sont montrés dans ce manuel de service.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

AM-FM STEREO DOUBLE CASSETTE RECORDER WITH SEMI-AUTOMATIC TURNTABLE

July 1985 TOYOKAWA WORKS

#### **KEY TO ILLUSTRATIONS**

#### T-22L, T-21L

- (1) Power switch
- (2) Power indicator
- (3) FM stereo indicator
- (4) Graphic equalizer
- ⑤ Audio analyzer
- (6) Dial pointer
- Balance control
- (8) Loudness switch
- (9) Tuning control
- (10) Function selector
- (1) Volume control
- (12) Tape counter/Reset button

- (13) Tape selector switches
- (14) Record level control
- (15) Microphone jacks
- (16) Pause button (■■)
- (17) Stop/Eject button
- (18) Playback button (►)
- (19) Fast forward button (>>>)
- 20) Rewind button (
- ② Record button
- (2) Cassette holder
- 23 Headphones jacks

#### T-55L, T-51L

- 1) Power switch
- Power indicator
- (3) FM stereo indicator
- (4) Graphic equalizer
- (5) Audio analyzer 6 Dial pointer
- (7) Balance control
- (8) Loudness switch
- (9) Tuning control
- (10) Function selector
- (1) Volume control
- 12 Tape counter/Reset button 24 Headphones jack

- (13) Dolby NR switch
- (14) Tape selector switches
- (15) Record level control
- (16) Microphone jacks
- (17) Pause button (
- (8) Stop/Eject button
- Playback button (►)
- (20) Fast forward button (►►)
- (21) Rewind button (
- 22) Record button
- (23) Cassette holder

## LEGENDE FÜR DIE ABBILDUNGEN

#### T-22L, T-21L

- Netzschalter
- Netzanzeige
- ③ UKW-Stereoanzeige
- (4) Graphic Equalizer
- (5) Audio-Analysator
- (6) Skalennadel
- (7) Balance-Regier
- (8) Lautstärkekontur-Schalter
- (9) Abstimm-Regler
- (10) Funktionswähler
- (1) Lautstärkeregler
- (2) Bandzählwerk/Rückstelltaste

- (13) Bandsorten-Schalter
- (14) Aufnahmepegel-Regler
- (5) Mikrofon-Buchsen
- (16) Pause-Taste (■■)
- (7) Stop/Auswurf-Taste
- (18) Wiedergabetaste (►)
- (19) Schnellvorlauftaste (►►) ② Rückspultaste (◄◄)
- (21) Aufnahmetaste
- 2 Cassettenhalter
- (3) Kopfhörer-Buchse

## T-55L, T-51L

- Netzschalter (2) Netzanzeige
- ③ UKW-Stereoanzeige
- 4 Graphic Equalizer
- ⑤ Audio-Analysator
- 6 Skalennadel
- ① Balance-Regler
- (8) Lautstärkekontur-Schalter
- (9) Abstimm-Regler
- (II) Funktionswähler
- (1) Lautstärkeregler
- Bandzählwerk/Rückstelltaste

- ① Delby-NR-Schalter
- Bandsorten-Schalter
- (5) Aufnahmepegel-Regler
- (ii) Mikrofon-Buchsen
- (7) Pause-Taste (■■)
- (B) Stop/Auswurf-Taste
- (19) Wiedergabetaste (►)
- ② Schnellvorlauftaste (►►)
- ② Rückspultaste (◄◄)
- 22) Aufnahmetaste
- 23) Cassettenhalter
- (4) Kopfhörer-Buchse

## SIGNATION DES COMMANDES

### T-22L, T-21L

- (2) Témoin d'alimentation
- ③ Indicateur FM stéréo
- 4 Compensateur graphique
- (5) Analyseur audio
- (6) Indicateur à cadran
- ① Commande balance
- (8) Compenstateur physiologique
- Commande d'accord
- 10 Sélecteurs de fonction
- (1) Commande du volume sonore
- Compteur de bande/-Touche de remise à zéro

- ① Interrupteur d'alimentation ③ Sélecteurs de bande
  - (14) Commande du niveau d'enregistrement
  - (5) Prises de microphone
  - (6) Touche de pause (■■)
  - (17) Touche d'arrêt/éjection
  - (B) Touche de lecture (►)
  - (9) Touche d'avance rapide ( )Touche de rembobinage
  - ② Touche d'enregistrement
  - ② Compatiments cassette
  - ② Prise de casque

(RECORD)

### T-55L, T-51L

- 1) Interrupteur d'alimentation
- (2) Témoin d'alimentation
- Indicateur FM stéréo
- (4) Compensateur graphique (5) Analyseur audio
- 6 Indicateur à cadran
- Commande balance
- Compenstateur physiolo-
- gique Commande d'accord
- (10) Sélecteurs de fonction
- (1) Commande du volume sonore
- Compteur de bande/-Touche de remise à zéro

- (3) Réducteur de souffle Dolby
- (4) Sélecteurs de bande
- (5) Commande du niveau
- d'enregistrement
- (16) Prises de microphone
- (17) Touche de pause (11) (8) Touche d'arrêt/éjection
- (9) Touche de lecture (►) 20 Touche d'avance rapide
- $( \triangleright \triangleright )$ ② Touche de rembobinage
- $(\blacktriangleleft \blacktriangleleft)$ (2) Touche d'enregistrement
- (RECORD) 23 Compatiments cassette
- ② Prise de casque

#### **SAFETY PRECAUTION -**

The following precautions should be observed when servicing.

- 1. Since many parts in the unit have special safety related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with  $\Delta$  in the circuit diagram and printed wiring board.
- 2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

## SPECIFICATIONS T-22L, T-21L

<b>GENER</b>	AL SPECI	<b>IFICATIONS</b>

Power Supply Power Consumption Dimensions Weight  $\sim\!240$  V, 50 Hz,  $\sim\!220$  V, 50 Hz 60 W [T-21L], 70 W [T-22L] 83.0(H)  $\times$  43.0(W)  $\times$  37.5(D) cm

**AMPLIFIER SECTION** 

Audio output T-22L:  $10 \text{ W} \times 2 \text{ (8 ohms, T.H.D. 5\% both}$ 

channel driven, 1 kHz)

**T-21L:** 5 W × 2 (8 ohms, T.H.D. 5% both

channel driven, 1 kHz)

Tone Control

100 Hz ±8 dB 1 kHz ±8 dB 10 kHz ±8 dB

Input Sensitivity and Impedance Output Impedance

Microphone 3 mV, 1 kohms Speaker: 8 ohms

Speaker: 8 ohms Headphones: 8 ohms

TUNER SECTION Circuit System

**Tuning Range** 

t System FM/MW/LW 3-band superhetero-

dyne FM: 87.5 to 108 MHz

MW: 530 to 1,605 kHz LW: 150 to 350 kHz IHF Sensitivity

FM : 2 μV (17.2 dBf) at S/N 26 dB MW : 300 μV/m (S/N 20 dB) LW : 600 μV/m (S/N 20 dB)

FM Stereo Separation 30 dB FM Signal-to-Noise Ratio 60 dB Antennas FM:E

FM: External antenna (aerial),

Wire ANT. (ZS)

MW/LW: Built-in ferrite-core antenna

(aerial)

TAPE DECK SECTION

Cassette tape deck

Tape
Tape Speed
Recording System and
Bias Frequency
Track System
Erasing System
Frequency Response

Normal
CrO2
Signal-to-Noise Ratio
Wow and Flutter
Crosstalk
Erase Ratio

**IHF Sensitivity** 

**Antennas** 

Cassette tape 4.75 cm/s

AC bias, 85 kHz 4 track 2 channel AC erase

70 Hz to 10 kHz 70 Hz to 10 kHz 50 dB 0.3% WRMS 50 dB 60 dB DC Motor

#### T-55L, T-51L

#### **GENERAL SPECIFICATIONS**

Power Supply Power Consumption Dimensions

Weight

 $\sim$  240 V, 50 Hz,  $\sim$  220 V, 50 Hz 80 W 83.0(H)  $\times$  43.0(W)  $\times$  37.5(D) cm

23 kg

**AMPLIFIER SECTION** 

Audio output 15 W $\times$  2 (8 ohms, T.H.D. 5% both

channel driven, 1 kHz)

Tone Control 63 Hz ±8 dB

250 Hz ±8 dB 1 kHz ±8 dB 4 kHz ±8 dB 16 kHz ±8 dB

Input Sensitivity and Impedance Output Impedance

Microphone 3 mV, 1 kohms

Speaker: 8 ohms Headphones: 8 ohms

TUNER SECTION Circuit System

**Tuning Range** 

FM/MW/LW 3-band superhetero-

dyne

FM: 87.5 to 108 MHz MW: 530 to 1,605 kHz LW: 150 to 350 kHz TAPE DECK SECTION
Cassette tape deck
Tape

FM Stereo Separation

FM Signal-to-Noise Ratio

Tape
Tape Speed
Recording System and
Bias Frequency
Track System
Erasing System
Frequency Response

Normal CrO2 Metal Signal-to-Noise Ra

Signal-to-Noise Ratio Dolby NR ON/OFF Wow and Flutter Crosstalk Erase Ratio Motor FM : 2  $\mu$ V (17.2 dBf) at S/N 26 dB MW : 300  $\mu$ V/m (S/N 20 dB)

LW: 600 μV/m (S/N 20 dB) 30 dB

60 dB FM : External antenna (aerial),

Wire ANT. (ZS)

MW/LW: Built-in ferrite-core antenna (aerial)

Cassette tape 4.75 cm/s

AC bias, 85 kHz 4 track 2 channel AC erase

70 Hz to 14 kHz 70 Hz to 15 kHz 70 Hz to 15 kHz

58/50 dB 0.3% WRMS 50 dB 60 dB DC Motor

#### SICHERHEITSMASSNAHMEN

Bei Wartungsarbeiten sind die folgenden Sicherheitsmaßnahmen zu beachten:

- Vor der Auslieferung eines reparierten Gerätes an den Kunden muß der Wartungstechniker das Gerät einer gründlichen Prüfung unterziehen, um sicherzustellen, daß sicherer Betrieb ohne die Gefahr von elektrischen Schlägen gewährleistet ist.

#### **TECHNISCHE DATEN**

#### T-22L, T-21L

ALLGEMEINE TECHNISCHE DATEN

Stromversorgung Stromverbrauch Abmessungen Gewicht  $\sim$  240 V, 50 Hz,  $\sim$  220 V, 50 Hz 60 W [T-21 L], 70 W [T-22 L] 83,0(H)  $\times$  43,0(B)  $\times$  37,5(T) cm

23 kg

**VERSTÄRKERABSCHNITT** 

Audioausgang T-22L:

 $10 \text{ W} \times 2$  (8 ohms, gesamte

harmonische Verzerrung 5%, beide

Kanäle angetrieben, 1 kHz) **T-21:L:** 5 W × 2 (8 Ohm, gesamte

harmonische Verzerrung 5%, beide

Kanäle angetrieben, 1 kHz)

Klangregelung

100 Hz ±8 dB 1 kHz ±8 dB 10 kHz ±8 dB

Eingangsempfindlichkeit

und Impedanz Ausgangsimpedanz Mikrofon 3 mV, 1 k-Ohm Lautsprecher: 8 Ohm Kopfhörer: 8 Ohm

TUNERABSCHNITT

Stromkreissystem

UKW-/MW-/LW-

Abstimmbereich

Überlagerungsempfänger UKW: 87,5 bis 108 MHz MW: 530 bis 1605 kHz

LW: 150 bis 350 kHz

**ZF-Empfindlichkeit** 

UKW: 2 μV (17,2 dB) bei einem Rauschabstand von 26 dB MW: 300 μ/m (S/N 20 dB)

LW: 600 µ/m (S/N 20 dB)

UKW-Stereotrennung 30 dB UKW-Rauschabstand 60 dB

Antennen UKW: And

UKW: Anßenantenne (Dachantenne) MW/LW: Eingebaute Ferritantenne

(Dachantenne)

**TONBANDABSCHNITT** 

Kassettentonbandgerät

**Tonband** Kassettentonband **Tonbandgeschwindigkeit** 4,75 cm/s

Aufnahmesystem und

Vormagnetisierungsfrequenz Wechselstromvormagnetisierung,

85 kHz

Spursystem 4 Spuren, 2 Kanäle Löschsystem Wechselstromlöschung Frequenzgang

 Normalband
 70 Hz bis 10 kHz

 CrO2-Band
 70 Hz bis 10 kHz

 Rauschabstand
 50 dB

Gleichlaufschwankungen 50 dB
Übersprechen 50 dB
Löschverhältnis 60 dB

Motor

Gleichstrommotor

#### T-55L, T-51L

ALLGEMEINE TECHNISCHE DATEN

Stromversorgung Stromverbrauch  $\sim$  240 V, 50 Hz,  $\sim$  220 V, 50 Hz

80 W

Abmessungen

 $83,0(H) \times 43,0(B) \times 37,5(T) \text{ cm}$ 

Gewicht 23 kg
VERSTÄRKERABSCHNITT

Audioausgang

15 W × 2 (8 Ohm, gesamte harmonische Verzerrung 5%,

beide Kanäle angetrieben,

1 kHz)

Klangregelung

63 Hz ±8 dB 250 Hz ±8 dB 1 kHz ±8 dB

4 kHz ±8 dB 16 kHz ±8 dB

Eingangsempfindlichkeit

und Impedanz Ausgangsimpedanz Mikrofon 3 mV, 1 k-Ohm Lautsprecher: 8 Ohm Kopfhörer: 8 Ohm

TUNERABSCHNITT

Stromkreissystem
Abstimmbereich

UKW-/MW-/LW-

Überlagerungsempfänger UKW: 87,5 bis 108 MHz MW: 530 bis 1605 kHz

LW: 150 bis 350 kHz

ZF-Empfindlichkeit

UKW: 2 μV (17,2 dB) bei einem Rauschabstand von 26 dB

MW:  $300 \,\mu/\text{m}$  (S/N 20 dB) LW:  $600 \,\mu/\text{m}$  (S/N 20 dB)

UKW-Stereotrennung 30 dB UKW-Rauschabstand 60 dB

Antennen UKW:

UKW: Anßenantenne (Dachantenne) MW/LW: Eingebaute Ferritantenne

(Dachantenne)

TONBANDABSCHNITT

Kassettentonbandgerät

**Tonband** Kassettentonband

Tonbandgeschwindigkeit 4,75 cm/s

Aufnahmesystem und

Vormagnetisierungsfrequenz Wechselstromvormagnetisierung,

85 kHz

Spursystem Löschsystem

4 Spuren, 2 Kanäle Wechselstromlöschung

Frequenzgang Normalband

Normalband 70 Hz bis 14 kHz
CrO2-Band 70 Hz bis 15 kHz
Metallband 70 Hz bis 15 kHz
Rauschabstand

Mit/ohne Dobly-

Rauschunterdrückung 58/50 dB
Gleichlaufschwankungen 0,3% effektiv
Übersprechen 50 dB
Löschverhältnis 60 dB

Gleichstrommotor

Motor

#### PRÉCAUTIONS DE SÉCURITÉ

Les précautions suivantes doivent être observées chaque fois qu'une réparation doit être faite.

- 1. Etant donné que de nombreux composants de l'appareil possèdent des caractéristiques relatives à la sécurité, utiliser uniquement des pièces de rechange d'origine Hitachi pour effectuer un remplacement. Ceci se rapporte notamment aux piéces critiques du bloc d'alimentation qui ne doivent en aucun cas être remplacées par celles d'autres fabricants. Les piéces critiques sont accompagnées du symbole A dans le schéma de montage et sur le schéma de plaque de câblage.
- 2. Avant de retourner l'appareil réparé au client le technicien doit procéder à un essai complet pour s'assurer qu'il ne présente aucun danger de chocs électriques.

## CARACTÉRISTIQUES TECHNIQUES

### T-22L, T-21L

CARACTÉRISTIQUES GÉNÉRALES

Secteur Consommation d'énergie 60 W [T-21 L], 70 W [T-22 L] **Encombrement** Poids

~240 V, 50 Hz, ~220V, 50 Hz  $83,0(H) \times 43,0(L) \times 37,5(P)$  cm 23 kg

**AMPLIFICATEUR** 

Sortie audio

10 W  $\times$  2 (8 ohms, T.H.D. 5% tous les deux canaux au trabail, 1 kHz)

T-211:

T-22L:

 $5 \text{ W} \times 2 \text{ (8 ohms, T.H.D. 5\% tous)}$ les deux canaux au travail, 1 kHz)

Commande de tonalité

100 Hz ±8 dB 1 kHz ±8 dB 10 kHz ±8 dB

Sensibilité et impédance

d'entrée

Impédance de sortie

Microphone 3 mV, 1 kohms Haut-parleur: 8 ohms Casque: 8 ohms

TUNER

Système de circuit

Plage d'accord

FM/MO/GO 3 bandes superhétérodyne FM: 87.5 à 108 MHz MO: 530 à 1605 MHz GO: 150 à 350 kHz

Sensibilité IHF

FM: 2 μV (17,2 dBf) à S/B 26 dB MO: 300 µV/m (S/B 20 dB) GO:  $600 \mu V/m$  (S/B 20 dB)

Séparation stéréo FM Rapport signal sur bruit FM

Antennes

FM: antenne extérieure (aérienne) MO/GO: antenna p novau ferrite

incorporée (aérienne)

PLATINE DE CASSETTE

Platine de cassette

Bande Vitesse de défilement

Système d'enregistrement et fréquence de polarisation

Système de piste Système d'effacement Réponse de fréquence

Normal: CrO<sub>2</sub> Rapport signal sur bruit Pleurage et scintillement

Diaphonie

Rapport d'effacement Moteur

Bande à cassette

4.75 cm/s

30 dB

60 dB

Polarisation AC, 85 kHz 4 pistes 2 canaux Effacement AC

70 Hz à 10 kHz 70 Hz à 10 kHz 50 dB 0,3% W eff. 50 dB 60 dB

Moteur DC

#### T-55L, T-51L

CARACTÉRISTIQUES GÉNÉRALES

Secteur Consommation d'énergie 80 W

Encombrement

**Poids** 

**AMPLIFICATEUR** Sortie audio

15 W  $\times$  2 (8 ohms, T.H.D. 5% tous les deux canaux au travail, 1 kHz) 63 Hz ±8 dB

~ 240 V, 50 Hz, ~ 220V, 50 Hz

 $83.0(H) \times 43.0(L) \times 37.5(P)$  cm

Commande de tonalité

250 Hz ±8 dB 1 kHz +8 dB  $4 \text{ kHz} \pm 8 \text{ dB}$ 16 kHz ±8 dB

23 kg

Sensibilité et impédance

d'entrée

Impédance de sortie

TUNER Système de circuit

Plage d'accord

Microphone 3 mV, 1 kohms Haut-parleur: 8 ohms Casque: 8 ohms

FM/MO/GO 3 bandes superhétérodyne FM: 87,5 à 108 MHz

MO: 530 à 1605 MHz GO: 150 à 350 kHz

Sensibilité IHF

FM: 2 µV (17,2 dBf) à S/B 26 dB MO:  $300 \mu V/m (S/B 20 dB)$ GO:  $600 \mu V/m$  (S/B 20 dB)

Séparation stéréo FM 30 dB Rapport signal sur bruit FM

**Antennes** 

60 dB

FM: antenne extérieure (aérienne) MO/GO: antenna p novau ferrite incorporée (aérienne)

PLATINE DE CASSETTE

Platine de cassette

Rande Vitesse de défilement

Système d'enregistrement et fréquence de polarisation

Système de piste Système d'effacement

Réponse de fréquence Normal: CrO<sub>2</sub>

Màtai Rapport signal sur bruit Avec/sans réduction du

souffle Dobly Pleurage et scintillement Diaphonie

Rapport d'effacement Moteur

Rande à cassette 4.75 cm/s

Polarisation AC, 85 kHz

4 pistes 2 canaux Effacement AC

70 Hz à 14 kHz 70 Hz à 15 kHz 70 Hz à 15 kHz

58/50 dB 0,3% W eff. 50 dB 60 dB Moteur DC

#### DISASSEMBLY

#### 1. Turntable (Fig. 1) (In case of HP-H4-BC and HP-H4-BM)

- (1) Fix the tonearm on the tonearm rest by locking the Tonearm clamp.
- (2) Snap two locking clips to the vertical position with finger.
- (3) Disconnect the 1 connector from the TA P.W.B..

#### • Except HP-H4-BC and HP-H4-BM

- (1) Remove the platter retaining clip.
- (2) Remove the platter.
- (3) The player body can be detach by removing the screw and disconnect the 1 connector from the TA P.W.B..

#### 2. Front panel assembly (Fig. 2)

Remove 6 screws on both sides of the cabinet assembly.

#### 3. Cassette lid (Fig. 3)

- (1) Press the eject button to open the cassette lid.
- (2) Lift the cassette lid to disengage it from the olicks, and then draw it forward. The cassette lid will then be detached.

#### 4. TA P.W.B. (Fig. 4)

- (1) Remove the 6 screws fixing the TA P.W.B. and remove the 3 screws fixing the rear plate.
- (2) Disconnect the connectors and, remove the ST ING. P.W.B. and remove the spring (A) fixing the slide switch (S901).

#### 5. GE P.W.B. (Fig. 5)

- (1) After remove the TA P.W.B., then remove the REC lever with 2 set screws.
- (2) Remove the 6 screws fixing the GE P.W.B. on the front panel assembly with POWER IND. P.W.B.

#### 6. REC VOL. P.W.B. (Fig. 5)

Remove 3 screws fixing the REC VOL. P.W.B. on the front panel assembly.

#### 7. MIC JACK P.W.B. (Fig. 5)

Remove 1 screw from the MIC JACK P.W.B. holder, and detach the P.W.B..

#### 8. Power switch and headphones jacks (Fig. 5)

Remove 1 screw from the metal fittings to which the power switch and headphones jack are mounted. With this procedure, the power switch and headphones jack are detached.

#### 9. Cassette deck chassis (Fig. 6)

Remove 5 screws mounting Cassette deck chassis on the front panel assembly.

#### ZERLEGUNG

#### 1. Plattenspieler (Abb. 1) (im Fall von HP-H4-BC)

- (1) Fixieren Sie den Tonarm durch Verriegeln der Tonarmklammer auf der Tonarmablage.
- (2) Schnappen Sie die beiden Verriegelungsklemmen mit dem Finger in die senkrechte Position.
- (3) Ziehen Sie den Stecker 1 von der Schaltplatine TA ab.

#### • Ausgenommen HP-H4-BC und HP-H4-BM

- (1) Entfernen Sie die Halteklammer des Plattentellers.
- (2) Entfernen Sie den Plattenteller.
- (3) Durch Entfernen der Schraube kann der Plattenspielerkörper entfernt werden und ziehen Sie den Stecker 1 von der Schaltplatine TA ab.

#### 2. Vordertafelmontage (Abb. 2)

Entfernen Sie die 6 Schrauben an beiden Seiten der Gehäusemontage.

#### 3. Kassettenfachdeckel (Abb. 3)

- (1) Drücken Sie die Auswurftaste, um den Kassettenfachdeckel zu öffnen.
- (2) Heben Sie den Kassettenfachdeckel an, um ihn aus den Einrastungen zu entfernen, und ziehen Sie ihn dann nach vorn, um ihm zu entfernen.

#### 4. TA P.W.B. (Abb. 4)

- (1) Die 6 Schrauben, die die TA-Platine fixieren, und die 3 Schrauben, die die hintere Platte fixieren, entfernen.
- (2) Die Anschlüsse abtrennen, die Stereoanzeige-Platine entfernen, und die Feder (A) entfernen, die den Gleitschalter (S901) fixiert.

#### 5. GE P.W.B. (Abb. 5)

- (1) Nach Entfernen der TA-Platine den REC-Hebel mit den 2 Stellschrauben entfernen.
- (2) Die 6 Schrauben entfernen, mit denen die GE-Platine mit der Stromanzeige-Platine an der Frontplattenmontage befestigt ist.

#### 6. Gedruckte Schaltplatte REC VOL. (REC VOL. P.W.B.) (Abb. 5)

Entfernen Sie die 3 Schrauben, mit denen die gedruckte Schaltplatte REC VOL. an der Vordertafelmontage befestigt ist.

#### 7. Gedruckte Schaltplatte für Mikrofonbuchse (MIC JACK P.W.B.) (Abb. 5)

Entfernen Sie die Schraube, mit der die gedruckte Schaltplatte am Halter der Mikrofonbuchse befestigt ist, und entfernen Sie die gedruckte Schaltplatte.

#### 8. Netzschalter und Kopfhörerbuchse (Abb. 5)

Entfernen Sie die Schraube von der Metallhalterung, an der der Netzschalter und die Kopfhörerbuchse befestigt sind. Hierdurch werden der Netzschalter und die Kopfhörerbuchse gelöst.

#### 9. Chassis des Kassettentonbandgeräts (Abb. 6)

Entfernen Sie die 5 Schrauben, mit denen das Chassis des Kassettentonbandgeräts an der Vordertafelmontage angebracht ist.

### **DÉMONTAGE**

#### 1. Plaque Tournante (Fig. 1) (Dans le cas de HP-H4-BC)

- (1) Fixer le bras acoustique situé au support de bras acoustique en verrouillant le crampon de bras acoustique.
- (2) Détacher brusquement deux pinces d'attache à la position verticale avec doigts.
- (3) Débrancher le connecteur 1 du TA P.W.B..

#### • Sauf HP-H4-BC et HP-H4-BM

- (1) Enlever la pince de retenu de plaque.
- (2) Enlever la plaque.
- (3) Le corps de tourne-disque peut être détaché de façon à enlever le vis et débrancher le connecteur 1 du TA P.W.B..

#### 2. Ensemble de panneau avant (Fig. 2)

Desserrer les 3 vis de tous les deux côtés de l'ensemble de l'enceinte.

#### 3. Couvercle de cassette (Fig. 3)

- (1) Appuyer sur la touche d'éjection pour ouvrir le couvercle de cassette.
- (2) Lever le couvercle de cassette pour le dégager das cliquets et puis le tirar en avant. Le couvercle de cassette sera alors détaché.

#### 4. TA. P.W.B. (Fig. 4)

- (1) Enlever les six vis de fixation de TA P.W.B. et enlever aussi les cinq vis de fixation de la plaque d'arrière.
- (2) Déconnecter les connecteurs, et enlever P.W.B. IND. STEREO-PHONIQUE, et détacher le ressort (A) fixant l'interrupteur de côté (S901).

#### 5. GE P.W.B.

- (1) Après avoir détaché TA P.W.B., enlever le levier REC avec 2 vis de serrage.
- (2) Enlever les 6 vis fixant GE P.W.B. sur le panneau avant avec P.W.B. IND. de puissance.

#### 6. Plaquette REC VOL. (REC VOL. P.W.B.) (Fig. 5)

Desserrer les 3 vis retenant la plaquette REC VOL. sur l'ensemble de panneau avant.

## 7. Plaquette de prises de microphone (MIC JACK P.W.B.) (Fig. 5)

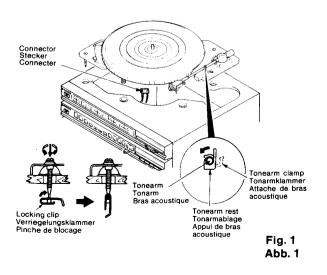
Desserrer les 3 vis retenant la plaquette de prises de microphone et, enlever cette plaquette.

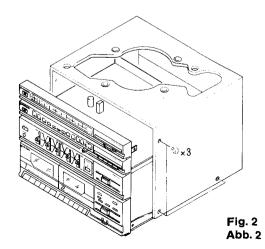
#### 8. Interrupteur principal et prise de casque (Fig. 5)

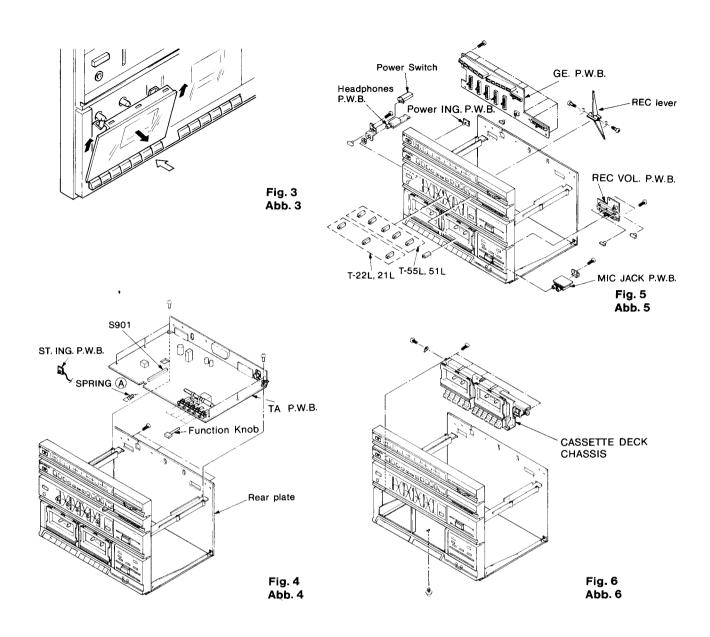
Desserrer 1 vis des ferrures métalliques sur lesquelles sont montés l'interrupteur principal et la prise de casque. Avec ce procédé, on peut détacher l'interrupteur principal et la prise de casque.

#### 9. Châssis de platine de cassette (Fig. 6)

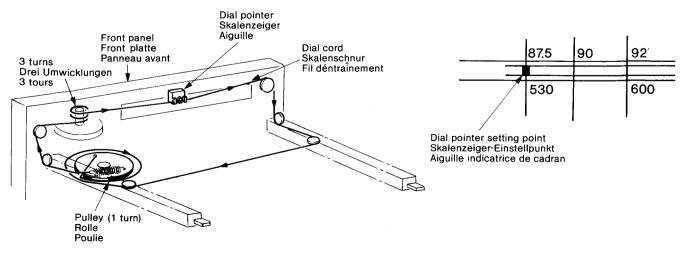
Desserrer les 5 vis fixant le châssis de platine de cassette sur l'ensemble de panneau avant.







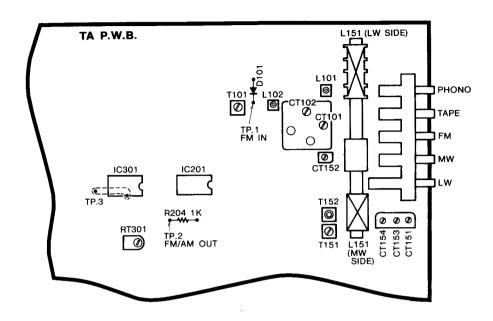
## DIAL CORD STRINGING · ANORDNUNG DER SKALENSCHNUR · ENROULEMENT DE LA FICELLE DE CADRAN



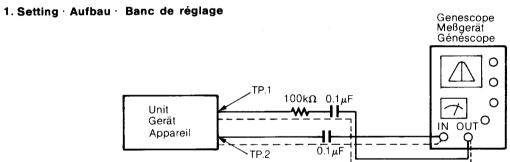
## ADJUSTMENT · EINSTELLUNGEN · RÉGLAGE

#### TUNER SECTION · TUNERABSCHNITT · TUNER

Adjusting points
 Einstellpunkte
 Points à régler



#### FM IF adjustment · UKW-ZF-Einstellung · Réglage IF de FM

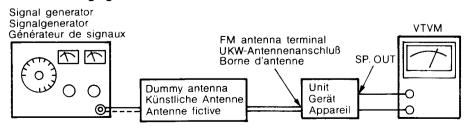


#### 2. Adjustment · Einstellung · Interverntion

Genescope Meßgerät Généscope	Dial pointer position Skalenzeigerposition Position d'aiguille de cadran	Finetallung	Reading Ablesung Lecture	Remarks Bemerkungen Remarque
10.7 MHz	Highest Höchste Stellung Maximum	T101	Straight line Gerade Linie Ligne droite	Adjust the T101 so that the straight line of the S curve can be acheived.  T101 so einstellen, daß die gerade Linie der S-Kurve ernalten werden kann.  Régler T101 de sorte que la igne soit droite sur la courbe S.

## FM RF (Covering & Tracking) adjustment · UKW-Zwischenfrequenzeinstellung (Umfassung und Nachlauf) · Réglage RF de FM (couverture et tracking)

1. Setting · Aufbau · Banc de réglage

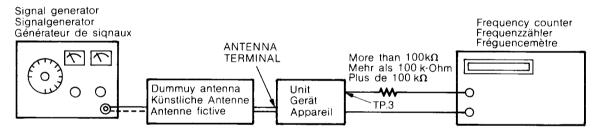


#### 2. Adjustment · Einstellung · Intervention

	Item	delibiateul de sigliaux		Dial pointer position Skalenzeigerposition	Adjust	Reading	Remarks
	Punkt Rubrique	Frequency Frequenz Fréquence	Modulation Modulation Modulation	Position de l'aiguille de cadran	Einstellung Manier	Ablesung Lecture	Bemrkungen Remarque
1	Covering	87.25 MHz	1kHz 22.5 kHz Dev. 1kHz 22.5 kHz	Lowest Niedrigste Position Minimum	L102	MAX.	
2	Umfassung Couverture	108.25 MHz	Abweichung Dév.	Highest Höchste Position Maximum	CT102	Maximalwert Maxm.	
3	Repeat 1 and 2 1 und 2 wieder Répéter 1 et 2						
4	Tracking	90 MHz	1kHz 22.5 kHz Dev. 1kHz 22.5 kHz	90 MHz	L101	мах.	
5	Nachlauf Tracking	106 MHz	Abweichung Dév.	106 MHz	CT101	Maximalwert Maxm.	
6	Repeat 4 and 5 4 und 5 wieder Répéter 4 et 5	holen.			· · · · · · · · · · · · · · · · · · ·		

#### FM MPX (Multiplex) adjustment · UKW-Multiplexeinstellung · Réglage MPX (multiplex) de FM

#### 1. Setting · Aufbau · Banc de régéage

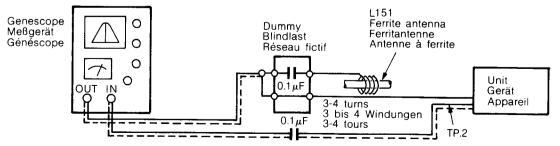


#### 2. Adjustment · Einstellung · Intervention

Adjust	Reading	Remarks	
Einstellung	Ablesung	Bemerkung	
Manier	Lecture	Remarque	
RT301	19 kHz ±50 Hz	Set the signal generator to 98 MHz (input: 60 dB, Unmodulated) Den Signalgenerator auf 98 MHz einstellen. (Eingang: 60 dB, nicht moduliert) Régler le générateur de signaux sur 98 MHz (entrée: 60 dB non modulée)	

#### AM IF adjustment · MW-ZF-Einstellung · Réglage IF de AM

#### 1. Setting · Aufbau · Banc de réglage

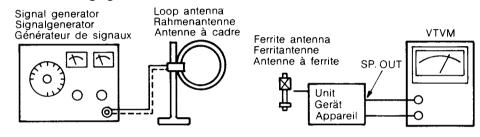


#### 2. Adjustment · Einstellung · Intervention

Genes Meßge Génes	erät scope	Dial pointer position Skalenzeigerposition	Adjust	Reading	Remarks
Frequency Frequenz Fréquence	Modulation Modulation Modulation	Position de l'aiguille de cardran	Manier	Anzeige Lecture	Bemerkungen Remarque
455 kHz		Highest Höchste Position Maximum		MAX. Maximalwert Maxm.	Set the function selector to the "MW" Den Funktionswahlschalter auf "MW" stellen Mettre sur "MW" le commutateur de fonction.

## MW/LW RF (Covering & Tracking) adjustment · MW-/LW-ZF-Einstellung (Umfassung und Nachlauf) · Réglage RF de MO/GO (couverture et tracking)

#### 1. Setting · Aufbau · Banc de réglage



### 2. Adjustment $\cdot$ Einstellung $\cdot$ Intervention

#### MW

	Item			Dial pointer position Skalenzeigerposition	Adjust	Reading	Remarks
	Punkt Rubrique	Frequency Frequenz Fréquence	Modulation Modulation Modulation	Position de l'aiguille de cadran	Einstellung Manier	Ablesung Lecture	Bemerkungen Remarque
1	Covering	515 kHz	400 11 200/	Lowest Niedrigste Position Minimum	T152	MAX.	
2	Umfassung Couverture	1650 kHz	400 Hz 30%	Highest Höchste Position Maximum	CT154	Maximalwert Maxm.	
3	Repeat 1 and 1 und 2 wiede Répéter 1 et 2	rholen.					
4	Tracking	600 kHz	400 Hz 30%	600 kHz	L151	MAX. Maximalwert	
5	Nachlauf Tracking	1400 kHz	400 HZ 30%	1400 kHz	CT152	Maxm.	
3	Repeat 4 and 4 und 5 wiede Répéter 4 et 5	rholen.				:	

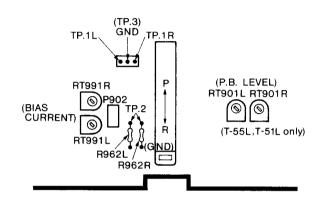
#### LW

	Item	Gelielateal ac digitals		Dial pointer position Skalenzigerposition	Adjust	Reading	Remarks	
	Punkt Rubrique	Frequency Modulation Position de l'aiguille	Einstellung Manier	Ablesung Lecture	Bemerkungen Remarque			
1	Covering	145 kHz	400 11- 000/	Lowest Niedrigste Position Minimum	T151	MAX.		
2	Umfassung Couverture	360 kHz	400 Hz 30%	Highest Höchste Position Maximum	CT153	Maximalwert Maxm.		
3	Repeat 1 and 2. 1 und 2 wiederholen. Répéter 1 et 2.							

4	Tracking Nachlauf	160 kHz	400 Hz 30%			L151	MAX.  Maximalwert Maxm.
5	Tracking	330 kHz		330 kHz	CT151		
6	Repeat 4 and 5. 4 und 5 wiederholen. Répéter 4 et 5.						

#### TAPE DECK SECTION · TONBANDGERÄTABSCHNITT · PLATINE DE CASSETTE

#### • Adjusting points · Einstellpunkte · Points à régler



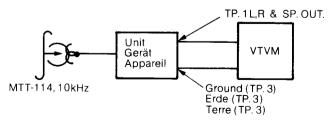
Symbol No. Symbol Nr. No de symbole	Position Position Position	
S902	Tape selector switch Bandwnalschalter Sélecteur de bande	UD-ER (NORMAL) UD-ER (Normal) UD-ER (NORMAL)
RV901L,R	Record level controls Aufnahmepegelregler Contrôleurs de niveau dénregistrement	Maximum Maximum Maximum
RIF Switch S905 RIF-Schalter Interrupteur RIF		А
DOLBY Switch S904 DOLBY-Schaltar Interrupteur DOLBY		OFF Aus Hors Circuit

- Perform the following adjustments in the sequence stated after cleaning the head, pressure roller, and capstan with a head cleaning stick moisted in alcohol. Also, unless specially indicated otherwise, set the switches and controls to the position indicated in the table.
- Führen Sie die folgenden Einstellungen in der angegebenen Reihenfolge durch, nachdem Sie den Kopf, die Andruckrolle und die Tonrolle mit einem mit Alkohol angefeuchteten Kopfreiniger gereinigt haben. Stellen Sie die Schalter und Regler wie in der Tabelle gezeigt ein, wenn nicht anders angegeben.
- Effectuer les réglages suivants dans le séquence décrite après avoir nettoyé la tête, le rouleau presseur et le cabestan avec un bâtonnet de nettoyage de tête imbibé d'alcool. Egalement, sauf indications contraire, mettre les interrupteurs et les commandes sur les positions montrées sur le tableau.

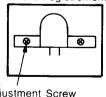
#### 1. Head azimuth adjustment · Kopfazimuteinstellung · Réglage de l'azimut de tête

Setting: Play back mode Betriebsart: Wiedergabebetrieb Préréglage: mode de lecture

Connection: Anschluß: Connexion:



R/P HEAD Aufnahme-/Wiedergabekopf Tête enregistrement/lecture



Adjustment Screw Einstellschraube Vis de réglage

Adjustment: Playback a test tape (MTT-114, 10 kHz) and adjust the azimuth adjustment screw for maximum output. Einstellung: Spielen Sie ein Prüfronband (MTT-114, 10 kHz) ab, und stellen Sie dis Azimuteinstellschraube für maximalen

Ausgang ein.

Intervention: Lire une band d'essai (MTT-114,10 kHz) et manier la vis de réglage d'azimut de façon à obtenir une

puissance de sorite maximale.

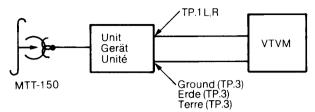
## 2. Playback output adjustment · Einstellen des wiedergabeausgangs · Réglage de sortie de la reproduction (T-55L, T-51L Only)

Setting: Playback mode

**Einstellung:** Wiedergabebetrieb **Consigne:** mode de reproduction

Connection:

Banc de réglage :



Adjustment: Playback a Dolby calibration tape (MTT-150, 400 Hz 200 nWb/m) and adjust RT901 L,R so that the voltage

of TP.1LR and TP.3 (GND) becomes 300 mV (0 dB).

Einstellung: Ein Dolby-Eichband (MTT-150, 400 Hz, 200 nWB/m) wiedergeben und RT901 L,R so einstellen, daß die

spannung von TP.1 L,R und TP.3 (GND) zu 300 mV (0 dB) wird.

Réglage: Lire la bande de calibrage Dolby (MTT-150, 400 Hz 200 nWb/m) et régler RT901L,R de sorte que la tension

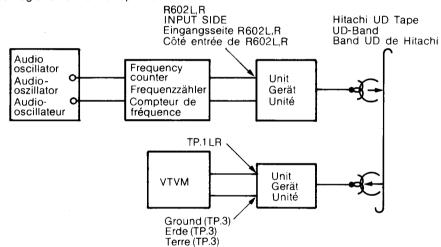
de TP1L,R et de TP.3 (GND) devienne à 300 mV (0 dB).

## 3. Frequency characteristic adjustment · Einstellen des Frequenzgangs · Réglage de caractéristique de la fréquence (T-55L, T-51L only)

**Setting:** Recording/Playback mode **Einstellung:** Aufnahme-/Wiedergabebetrieb

Consigne: mode dénregistrement et de reproduction

Connection: Anschluß: Connexion:



**Adjustment:** Record 400 Hz and 10 kHz signals at the level of -25 dB. Set the record mode, and if there is a difference of more than -25 dB ±1.5 dB in output, adjust RT991L.R.

Measure the record/playback frequency characteristic of the UD tape at the level of -25 dB. Then make sure that the measured value is within the range of the specification.

**Einstellung:** Signale von 400 Hz und 10 kHz bei einem Pegel von -25 dB aufnehmen. Auf Aufnahmebetrieb schalten, und RT991 L,R einstellen, wenn ein Unterschied von mehr als -25 dB ±1,5 dB im Ausgang vorhanden ist. Den Frequenzgang des UD-Bands für Aufnahme und Wiedergabe bei einem Pegel von -25 dB messen und sicherstellen, daß der Meßwert im Bereich der technischen Daten liegt.

**Réglage:** Enregistrer les signaux de 400 Hz et de 10 kHz au niveau de -25 dB. Consigner le mode d'enregistrement, et s'ily a une différence de plus de -25 dB ±1,5 dB dans la sortie, réglaer RT991L,R.

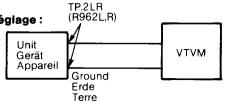
Mesurer la caractéristique de la fréquence d'enregistrement et de reproduction de la bande UD au niveau de -25 dB. S'assurer ensuite que la valeur mesurée est comprise dans la gamme de la spécification.

## 4. Bias current adjustment · Einstellung des Vormagnetisierungsstroms · Réglage du courant de poiarisation (T-22L, T-21L Only)

Setting: Recording mode
Betriebsart: Aufnahmebetrieb
Préréglage: mode d'enregistrement

Connection:

Anschluß:
Banc de réglage:



#### Adjustment:

Set the record mode. Adjust RT991L,R so that the bias voltage of 3.5 mV.

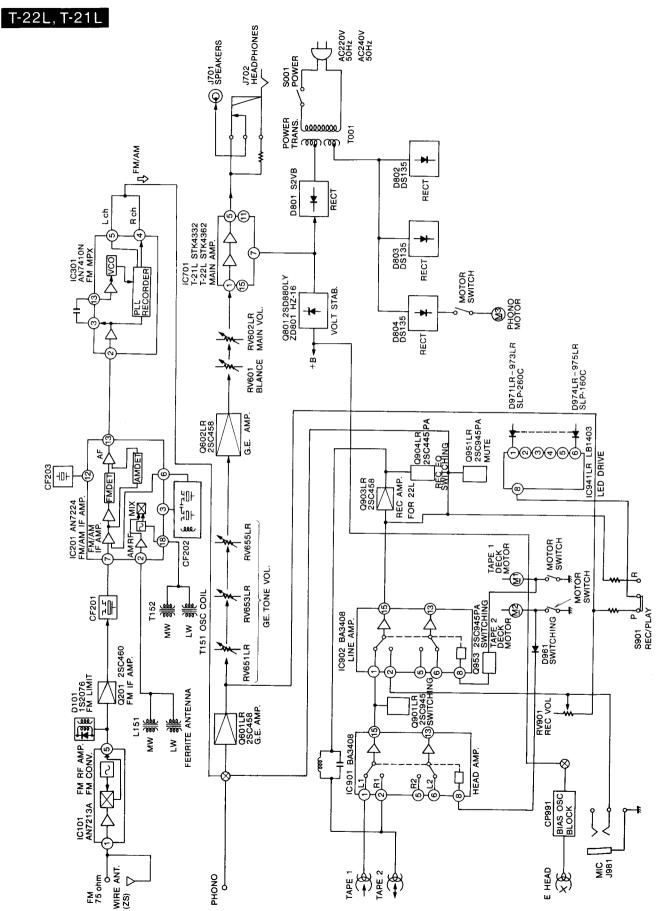
#### Einstellung:

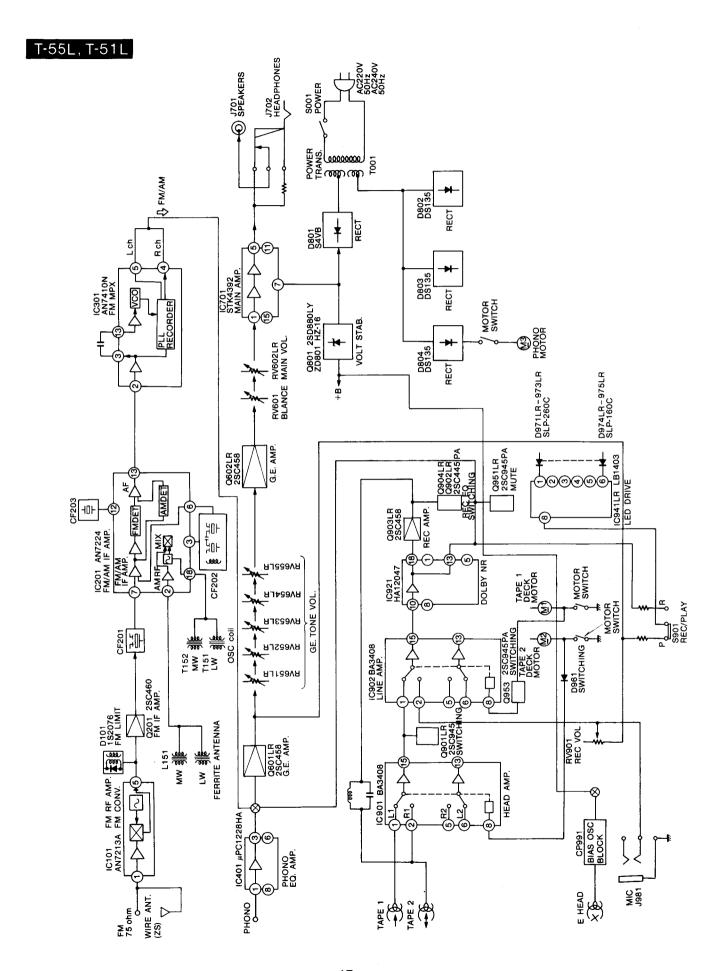
Stellen Sie auf Aufnahmebetrieb ein. Stellen Sie dann RT991L,R so ein, daß die Vormagnetisierungsspannung zu 3.5 mV wird.

#### Intervention:

Mettre en mode d'enregistrement. Régler RT991 L,R de sorte que la tension de polarisation soit de 3.5 mV.

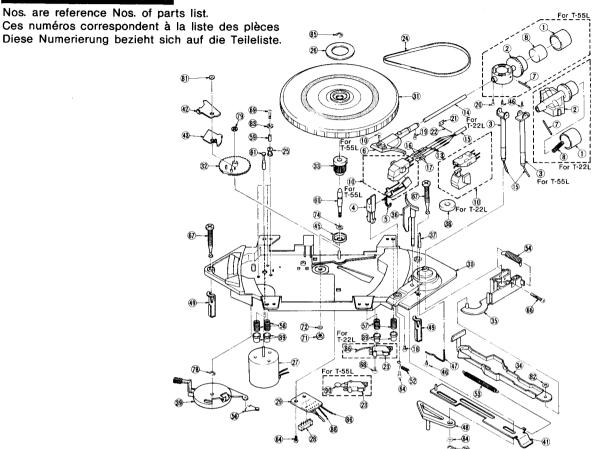
## **BLOCK DIAGRAM · BLOCK SCHEMA · SCHEMA**





## EXPLODED VIEW (Turntable section HP-H4-BC, HP-H4-BM) · AUSEINANDERGEZOGENE · DARSTELLUNG VUE ECLATEE

#### T-22L (KS), T-55L (SA)

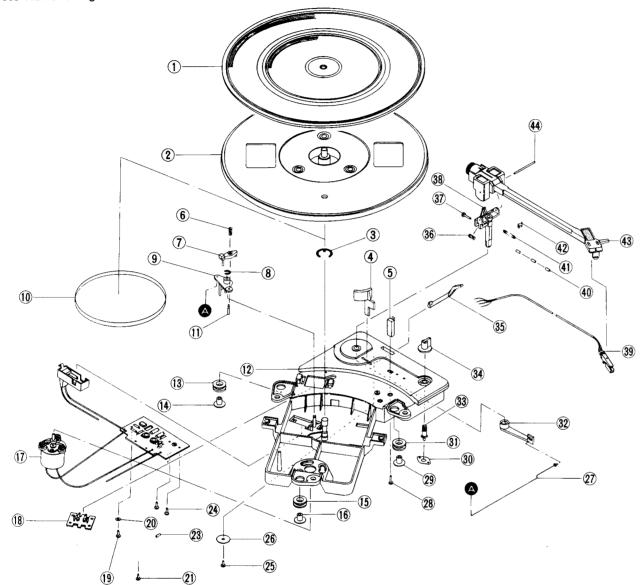


## REPLACEMENT PARTS LIST · ERSATZTEILISTE · TABLEAU DES PIECE

ITEM No.	PART No.	DESCRIPTION	ITEM No.	PART No.	DESCRIPTION	ITEM No.	PART No.	DESCRIPTION
1	4817471	Aluminium cap (HP-H4-BC)	22	4817501	Cartridge G. Wire (HP-H4-BC)	54	4817534	Adjusting spring
	4817472	Aluminium cap (HP-H4-BM)	1	4817502		56	4817535	
2		Rotary shaft hood (HP-H4-BC)	23	4817503	Micro switch	57	4817536	, , ,
	4817474	Rotary shaft hood (HP-H4-BM)	24	4817504	Belt	58	4817537	Mounting spring
3	4817475	Rotary shaft (HP-H4-BC)	25	4817505	Cushion rubber	59	4817538	
	4817476	Rotary shaft (HP-H4-BM)	26	4817506	PVC plate	60	4817539	
4	4817477	Pick-up stand	27	4817507	DC motor	61	4817541	Capstan
5	4817478		28	4817508	5P socket	64	4817542	Screw
6	4817479	Headshell (HP-H4-BC)	29	4817509	P.C. board	66	4817543	Screw
	4817481	Headshell (HP-H4-BM)	30	4817511	Panel	67	4817544	Transit screw
7	4817482	Pin for fixing T.arm (HP-H4-BC)	31	4817512	Turntable	68	4817545	Screw
	4817483	Pin for fixing T.arm (HP-H4-BM)	32	4817513	Cam gear	69	4817546	Motor mounting screw
8	4817484	Spring (HP-H4-BC)	33	4817514	Small gear	71	4817547	Nut
	4917485	Barance (HP-H4-BM)	34	4817515	Starting lever	72	4817548	Washer
10	4817486	Cartridge W/stylus (T-22L)	35	4817516	Return link (HP-H4-BC)	74	4817549	Washer
		(Cartrige, Stylus, Stylus cover)		4817517	Return link (HP-H4-BM)	78	4817551	E ring
	4817487	Cartridge W/stylus (T-55L)	36	4817518	Lifter	79	4817552	Retaining clip
		(Cartrige, Stylus, Stylus cover,	37	4817519	Cueing lever knob	81	4817553	Retaining clip
13	4817488	Screw, Terminal)	38	4817521	EP adaptor	82	4817552	Washer
14		Terminal	39	4817522	Speed selector lever	83	4817555	Washer
14	4817489	Tone arm (HP-H4-BC)	41	4817523	Operating plate	84	4817556	Washer
15	4817491 4817492	Tone arm (HP-H4-BM)	42	4817524	Friction link	85	4817557	E ring
16	4817493	Tone arm shield wire	43	4817525	Actuating link	86	4817558	PVC wire
17	4817494	Shield wire bushing	45	4817526	Washer	88	4817559	PVC wire
18	4918495	Shield wire bushing	46	4817527	Screw	89	4817561	Plastic cup
19		Screw for fix. P/U.S	47	4817528	Cueing lever	90		Capacitor (HP-H4-BM)
20	4817497	Screw for fixing T/A	48	4817529	Switch plate			. , , , , , , , , , , , , , , , , , , ,
20		Screw for fixing T/A (HP-H4-BC)	49	4817531	Transit spring			
21	4817498 4817499	Screw for fixing T/A (HP-H4-BM)	32	4817532	Spring		İ	
21	401 /499	Tone arm G. sheet	53	4817533	Spring			

## T-21L (Turntable section, BSR P292)

Nos. are reference Nos. of parts list. Ces numéros correspondent à la liste des pièces. Diese Numerierung bezieht sich auf die Teileliste.



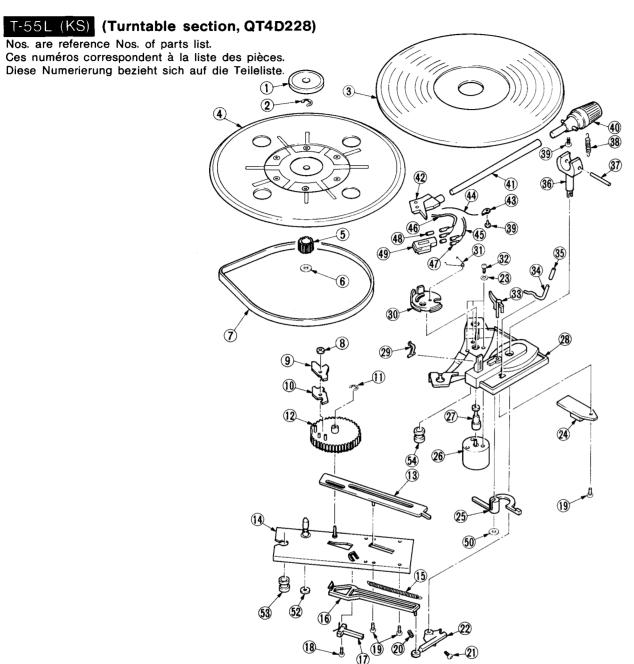
### REPLACEMENT PARTS LIST · ERSATZTEILISTE · TABLEAU DES PIECE

ITEM No.	BSR PART No.	DESCRIPTION	ITEM No.	BSR PART No.	DESCRIPTION	ITEM No.	BSR PART No.	DESCRIPTION
1	A118223	Turntable Mat	16	A117836	Mounting Bush	31	A117837	Mounting Gromment
2	C118506	Turntable Assembly	17	C120103	D.C. Motor Final Assembly	32	A117838	Trip Lever
3	A116055	Circlip	18	A102616	Phono Socket	33	A116565	Knob Spindle
4	B117826	Raising Pad	19	A105267	Screw	34	A120114	Printed Knob
5	B117831	P.U. Rest	20	A117954	Washer	35	B117828	Cue Lever
6	A117406	Spring Friction	21	A108337	Screw	36	A109288	Spring
7	A118493	Pawl	23	A103373	Securing Rubber	37	A115146	Screw
8	A100762	Circlip	24	A105267	Screw	38	A117924	P.U. Hinge Assembly
9	A117835	Switch Lever	25	A108337	Screw	39	A120113	Cartridge/P.U. Lead Ass'y
10	A114446	Drive Belt	26	A105660	Control Washer			(TC12MO)
11	A117226	Friction Pin	27	A120132	Trip Wire Assembly	40	A103373	Securing Rubber
12	C118546	Unit Plate Final Assembly	28	A106511	Screw	41	l	P.U. Balance Spring
13	A117837	Mounting Gromment	29	A117836	Mounting Bush	42	1	Spring Anchor
14	ı	Mounting Bush	30	A116564	Detent Spring	43		P.U. Arm
15		Mounting Gromment				44	A117840	Pivot Pin
	į.	1	l I	1		i	1	L

T-51L (Turntable section, BSR P285) Nos. are reference Nos. of parts list.
Ces numéros correspondent à la liste des pièces. Diese Numerierung bezieht sich auf die Teileliste. (C)

## REPLACEMENT PARTS LIST · ERSATZTEILISTE · TABLEAU DES PIECE

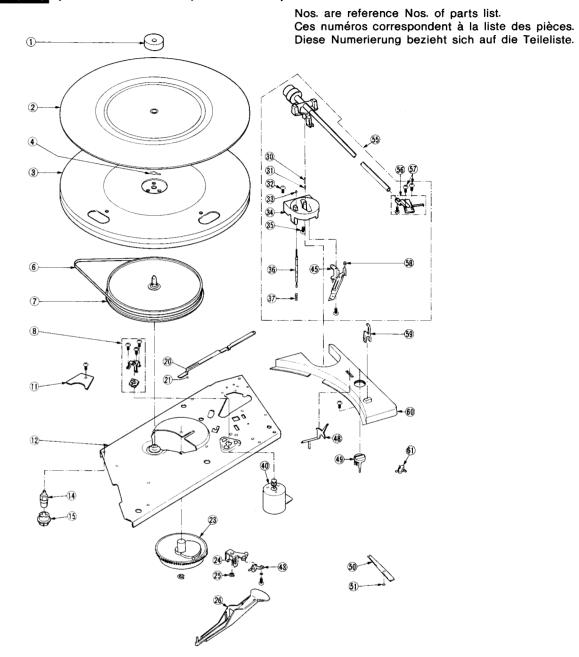
ITEM No.	BSR PART No.	DESCRIPTION	ITEM No.	BSR PART No.	DESCRIPTION	ITÉM No.	BSR PART No.	DESCRIPTION
1	D117786	Turntable Mat	24	A105264	Screw	47	A111345	Screw
2	A116055	Circlip	25	A105266	Screw	48	B117863	Quadrant
3	C118046	Turntable Assembly	26	A105263	Screw	49	A118034	P.U. Hinge Assembly
4	A114446	Drive Belt	27	B117705	D.C. Motor	50	A117870	Drive Spring
5	A117907	Fastener	28	A102616	Phono Socket	51	A116838	Fastener
6	A100762	Circlip	29	A116567	P.U. Arm Contact	52	A116949	Spring
7	A118033	Actuating Pawl Assembly	.30	A111516	Molex Plug	53	A118110	Screw
8	B118032	Cam Gear Final Assembly	31	A117660	Screw	54	A117874	Adjuster
9	C118041	Unit Plate Assembly	32	A105265	Screw	55	A115149	Quin Lead
10	A117879	Rubber Mounting	33	A300210	Pitch Control Board Final	56	A117872	P.U. Tube
11	A117877	Mounting Cup	1		Assembly	57	A116567	P.U. Arm Contact
12	A117945	Spring	34	B117858	Cue Lever	58	C117937	P.U. Head
13	B117861	Cue Fork	35	B117864	Cue Wire	59	A111345	Screw
14	A106816	Washer	36	C117856	P.U. Rest	60	A109527	Tag
15	A118185	Screw	37	A116565	Knob Spindle	61	A104306	Sleeve
16	A115146	Screw	38	B117862	Control Knob	62	A103587	Solder Tag
17	A118035	P.U. Raising Spindle Assembly	39	A116564	Detent Spring	63	A100615	Fibre Washer
18	A118036	Mainslide Assembly	40	A117880	Fastener	64	A117680	Grommet
19	A118037	Actuating Slide Assembly	41	A117882	Anti-Skate Spring	65	A117950	Spacing Bush
20	A118023	Spring	42	A116279	Screw	66	A103373	Securing Rubber
21	A114621	PT. F. E. Washer	43	A116531	Spring			
22	A101288	Washer	44	A117878	Pivot Pin			
23	A118022	Spring	45	C117855	P.U. Body			•
			46	A118072	Weight			



### REPLACEMENT PARTS LIST · ERSATZTEILISTE · TABLEAU DES PIECE

TEM No.	PART No.	DESCRIPTION	ITEM No.	PART No.	DESCRIPTION	ITEM No.	PART No.	DESCRIPTION
1	4817581	45 adaptor	20	4817602	Spring-control lever	39	4817623	Screw M2.3 × 5
2	4817582	E in T.T.	21	4817603	Screw M3 × 16	40	4817624	Locating stud ass'y
3	4817583	Mat	22	4817604	Control lever	41	4817625	Tube
4	4817584	Turntable	23	4817605	Motor washer	42	4817626	Head shell
5	4817585	Pinion T.T	24	4817606	P.C.B. ass'y	43	4817627	Ground lug
6	4817586	Nylon washer	25	4817607	Lever-belt shifter	44	4817628	Counter weight
7	4817587	Drive belt	26	4817608	DC12V motor	45	4817629	CS-E ring
8	4817588	Push on retainer	27	4817609	Motor pulley	46	4817631	Black wire
9	4817589	Trip pawl	28	4817611	Housing-tone arm	47	4817632	Terminal clip
10	4817591	Trip clutch plate	29	4817612	Lock-tone arm	49	4817633	Cartridge
11	4817592	E ring	30	4817613	Belt shifter	51	4817634	5 wire
12	4817593	Cam gear	31	4817614	Spring-belt shifter	52	4817635	Washer
13	4817594	Drive plate ass'y	32	4817615	Motor screw	53	4817636	Grommet
14	4817595	Chassis ass'y	33	4817616	Lifter-tone arm	54	4817637	Grommet
15	4817596	Spring-driver plate	34	4817617	Cue rod			
16	4817597	Trip lever	35	4817618	Cue rod knob			
17	4817598	Leaf switch LSB-1123	36	4817619	Gimbal			
18	4817599	Tapping screw M2 × 8	37	4817621	Pivot pin			
19	4817601	Screw M3 × 10	38	4817622	Spring	1		

### T-55L, T-22L (ZS) (Turntable section, Dual SP90)

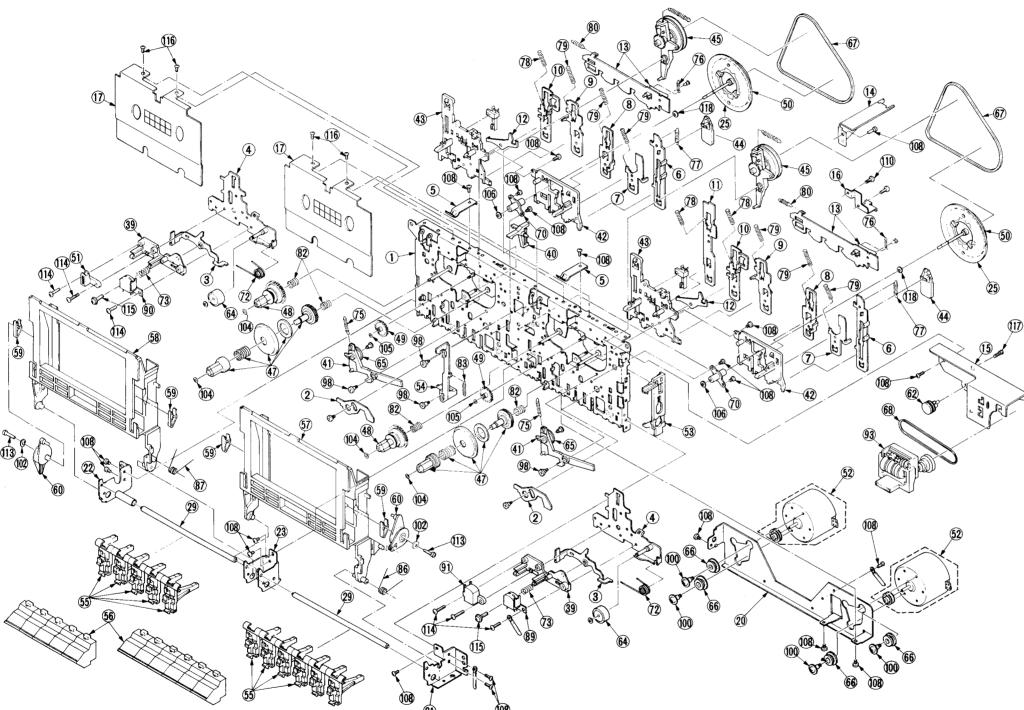


## REPLACEMENT PARTS LIST · ERSATZTEILISTE · TABLEAU DES PIECE

No.	DUAL PART No.	DESCRIPTION	No.	DUAL PART No.	DESCRIPTION	iTEM No.	DUAL PART No.	DESCRIPTION
1	220 212	EP Adapter	23	273 390	Cam wheel	45	273 394	Complete segment
2	271 631	Platter mat	24	270 585	Bearing bracket	48	272 082	Lift lever
3	272 487	Platter	25	210 147	Circlip	49	272 084	Speed switching knob
	273 389	Platter (strobe)	26	273 391	Complete main lever	50	272 078	Setting rail
4	270 557	Cilp	1			51	210 146	Circlip
6	272 489	Belt	30	272 069	Bearing bolt	55	273 399	Complete tone arm
7	273 388	Complete drive plate	31	272 068	Compression spring	56	273 397	Complete tone arm head
8	271 780	Motor fixing parts	32	272 119	Fillieter-head screw M3 × 6	57	272 368	Oval head sheet metal screw
11	272 095	Unit plate	33	216 844	Control pin			BZ 2.9 × 6
12	272 048	Complete base plate	34	272 067	Tone arm socket	58	272 839	Shell
14	269 671	Rubber buffer	35	272 073	PT oval head screw 3 × 20	59	272 125	Tone arm support
15	269 672	Pick-up pot	36	273 392	Complete lifting bolt	60	273 395	Complete plate
			37	272 066	Compression spring	61	272 106	Spring set
20	272 074	Shut-off rail	40	273 393	DC motor			
21	209 358	Ball 4	43	242 862	Switch			

## EXPLODED VIEW (Cabinet Section GT-30FW) · AUSEINANDERGEZOGENE · DARSTELLUNG VUE ECLATEE

Nos. are reference Nos. of parts list. Ces numéros correspondent à la liste des pièces. Diese Numerierung bezieht sich auf die Teileliste.

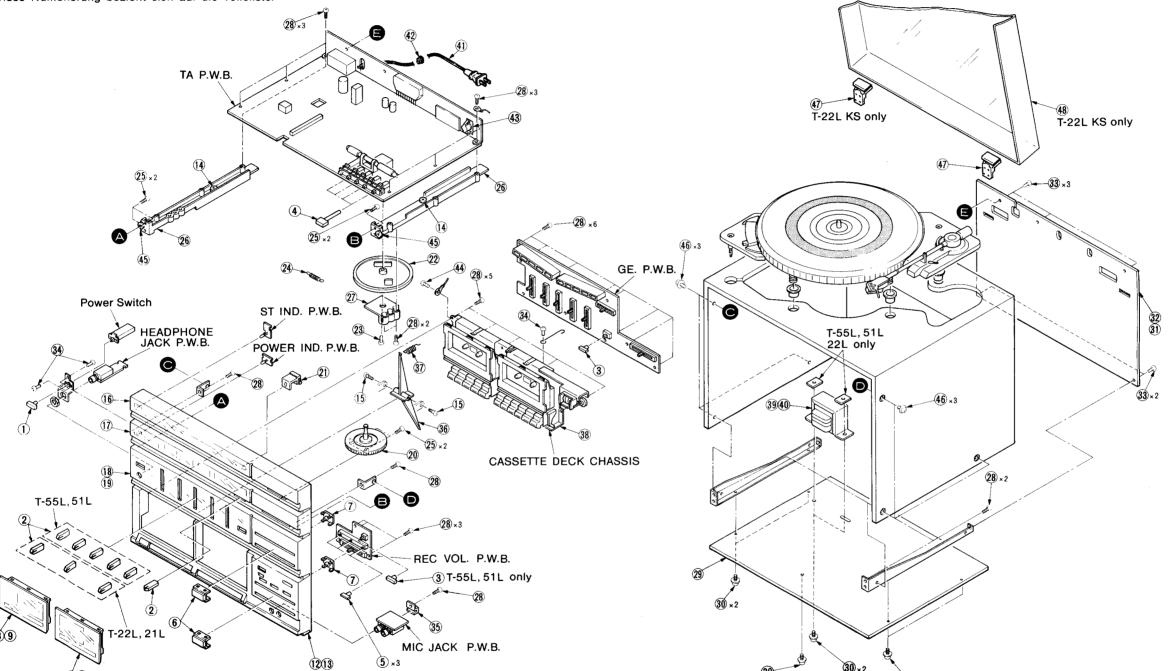


# REPLACEMENT PARTS LIST ERSATZTEILISTE TABLEAU DES PIECE

	ITEM No.	PART No.	DESCRIPTION	ITEM No.	PART No.	DESCRIPTION
Γ	1	4814451	Chassis (W) Ass'y	70	4814801	Holder
1	2		Pause Arm	72	4814481	Head Chassis Spring
1	3		AS Arm	73	4814511	
ı	4		Head Chassis Ass'y	75	4814561	
ı	5	F .	Pack Spring	76	4814721	
1	6	,	Pause Lever	77	4814681	
1	7	1	Stop Lever	78	4814691	
1	8		Play Lever	79	4814701	
1	9		FF Lever	80	4814731	1 0 1
1	10		REW Lever	82	4814791	, ,
ı	11		REC Lever	83	4814891	
	12		REW Arm (S)			
1	13		Lock Cam (A) Ass'y	86	4814971	Cassette Case Spring (R)
	14		REC Lever (A)	87	4814981	1 0 \ /
ı	15		Counter Bracket	89	2557211	, , ,
1	16	•	Sub Bracket	90	2557212	
1	17	1	Cassette Cover	91	2557221	Erase Head
١	1,	1430371	Cassette Cover	93	2788712	Counter
1	20	4814831	Motor Holder (W)	'	2,00,12	Counter
١	21	t .	Button Bracket (RF)	98	4814551	Special Screw
1	22		Button Bracket (LW)	1 ~	101 1001	Special Scien
1	23		Button Bracket (C)	100	4983411	Special Screw
1	25	1	Flywheel Weight	102	8811113	•
1	23	4014021	1 ly wheel weight	104	4418004	` '
1	29	4814931	Button Shaft (W)	105	4972701	
1	2)	1014731	Button Shart (W)	106	4701642	
1	39	4814491	Head Base	108	4577801	
1	40		REC Sensor	110	4577802	11. 0
-	41	1	Idler Arm	113	4578286	11 0
-	42		Lever Base (A)	114	4585381	2 × 8 Bind Screw
П	43		Lever Base (B)	115		2×9 Screw
Т	44		Pause Cam	116	4579881	
Т	45		Clutch Arm Ass'y (R)	117	4567411	Screw Bind Head $3 \times 6$
1			0.0.0	118	4418009	Polyslider Washer
	47	4814761	T Reel Ass'y	***		1 0.170.1.201 11 25.101
1	48		S Reel Ass'y			
1	49		FF Gear	1		
1	50		Flyweel Ass'y			
ı	51		Dummy Head			
1	52		Motor Ass'y			
	53		Eject Lever (F)	1		
1	54		Eject Lever (W)			
	55		Button Lever			
	56		Operation Button			
	57		Cassette Case (R)			
1	58		Cassette Case (L)			
1	59	4973731	Cassette Holder			
			Damper Ass'y	i		
	62	3929692	Roller			
	64	4973081	P Roller			
ı	65	4914531	Idler			
	66	4973401	Rubber Cushion			
	67	4814851	Belt			
1			Counter Belt			

# EXPLODED VIEW (Cassette Chassis Section) · AUSEINANDERGEZOGENE · DARSTELLUNG VUE ECLATEE

Nos. are reference Nos. of parts list. Ces numéros correspondent à la liste des pièces. Diese Numerierung bezieht sich auf die Teileliste.



# REPLACEMENT PARTS LIST ERSATZTEILISTE TABLEAU DES PIECE

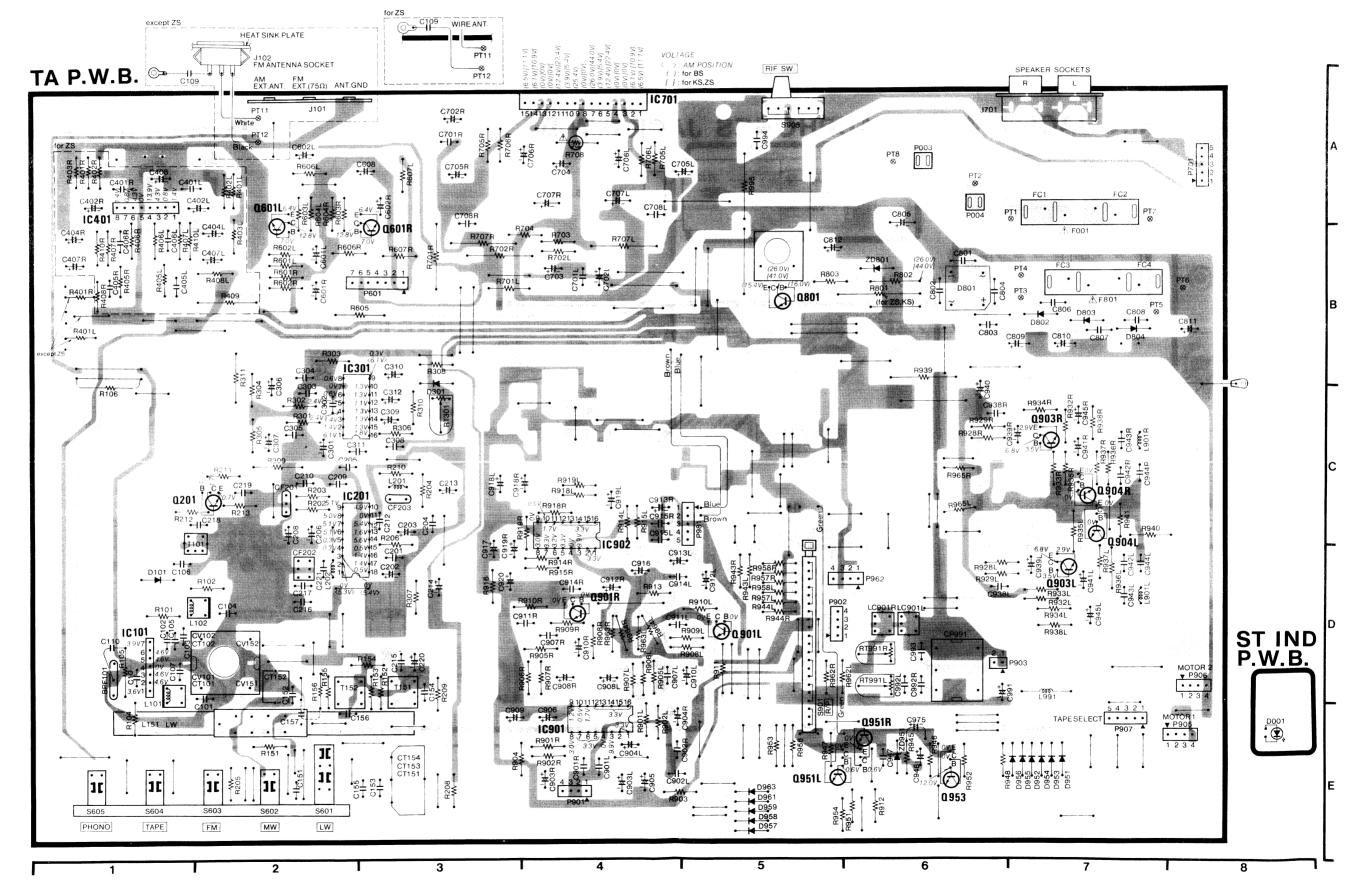
marked parts used for only T-22L, T-21L,
marked parts used for only T-55L, T-51L.

1 3297791   Power button ass'y   Xnob, graphic equalizer   Push button   3964121   Function button   Push button   Slide knob (M)   Slide peace (M)   Cassette door ass'y (TAPE   Cassette door ass'	ITEM No.	PART No.	DESCRIPTION
3 3964032   Push button 3 3964122   Push button 5 3964141   Slide knob (M) 7 3964151   Cassette door ass'y (TAPE 9 3975711   Cassette door ass'y (TAPE 10 3975712   Cassette door ass'y (TAPE 11 3975714   Cassette door ass'y (TAPE 12 3201103   Front panel ass'y (For KS, Zi 1304   Tont panel ass'y (For KS, Zi 1304   T	1	3297791	Power button ass'y
4 3305421   Function button 5 3964122   6 3964141   Slide knob (M) 7 3964151   Cassette door ass'y (TAPE 9 3975712   Cassette door ass'y (TAPE 10 3975714   Cassette door ass'y (TAPE 11 3975714   Tront panel ass'y (For BS) 3201105   Front panel ass'y (For BS) 3304811   Level indicator sheet 340821   Fundicator sheet 340	2	3305411	Knob, graphic equalizer
5 3964122 Push button 6 3964141 Slide knob (M) 7 3964151  * 8 3975711 Cassette door ass'y (TAPE 9 3975712 Cassette door ass'y (TAPE 10 3975712 Cassette door ass'y (TAPE 11 3975714 Cassette door ass'y (TAPE 12 3201103 Front panel ass'y (for BS) 3201104 Front panel ass'y (for KS, Zi 14 3933811 Scale plate 15 4585811 Scale plate 16 3904811 Scale plate 17 3904821 Level indicator sheet 18 3904831 Sheet 20 3305441 Sheet 20 3305441 Sheet 20 3305441 Sheet 21 3346233 Pulley 23 0741306 2.6φ × 6 bind screw 24 3340322 Spring M 25 8691412 3φ × 12 BT screw 26 3975701 Bottom board 27 3975691 Pulley holder 28 8691412 Φ × 12 BT screw 29 3161401 Bottom board 30 4575444 Φ × 12DT screw with wash 31 3161412 Back board (for BS, SA) 3161424 Back board (for KS) 3161424 Back board (for KS) 3161424 Back board (for S) 3161425 Back board (for S) 3161426 Back board (for S) 3161427 Back board (for S) 3161428 Back board (for S) 3161429 Back board (for S) 3161420 Back board (for S) 3161421 Back board (for S) 3161422 Back board (for S) 3161423 Back board (for S) 3161424 Back board (for S) 3161424 Back board (for S) 3161425 Back board (for S) 3161426 Back board (for S) 3161427 Back board (for S) 3161428 Back board (for S) 3161429 Back board (for S) 3161420 Back board (for S) 3161421 Back board (for S) 3161422 Back board (for S) 3161423 Back board (for S) 3161424 Back board (for S) 3161425 Back board (for S) 3161426 Back board (for S) 3161427 Back board (for S) 3161428 Back board (for S) 3161429 Back board (for S) 3161420 Back board (for S) 3161421 Back board (for S) 3161422 Back board (for S) 3161424 Back board (for S) 3161425 Back board (for S) 3161426 Back board (for S) 3161427 Back board (for S) 3161428 Back board (for S) 3161429 Back board (for S) 3161429 Back board (for S) 3161420 Back board (for S) 3161420 Back board (for S) 3161421 Back board (for S) 3161421 Back board (for S)	3	3964032	Push button
6 3964141 7 3964151 8 3975711 0 9 3975713 10 10 3975712 Cassette door ass'y (TAPE 2 2 3201103 2 2 2 2 2 2 2 3 3 3 2 3 3 4 2 2 2 3 3 3 2 3 3 4 2 2 3 3 3 3		3305421	Function button
7 3964151  * 8 3975711  ○ 9 3975712  ○ 10 3975712  ○ 11 3975714  ★ 10 3975714  ★ 12 3201103  ○ 13 3201105  ► Front panel ass'y (TAPE  □ 12 3201105  ► Front panel ass'y (for BS)  □ 13 3201105  □ 14 3933811  □ 15 4585811 □ 16 3904811 □ 17 3904821  ★ 18 3904831 □ 19 3904841 □ 17 3904821  ★ 18 3904831 □ 19 3904841 □ 19 3904841 □ 17 3904812 □ 18 3904813 □ 19 3904841 □ 19 3904841 □ 19 3904841 □ 19 3904841 □ 19 3904841 □ 20 3305441 □ 10 3305441 □ 11 387651 □ 22 3346233 □ 23 □ 0741306 □ 24 3340322 □ 25 8691412 □ 26 3975701 □ 27 3975691 □ 28 8691412 □ 26 3975701 □ 3161412 □ 30 4575444 □ 31 3161412 □ 3161413 □ 3161413 □ 3161412 □ 3161413 □ 3161412 □ 3161413 □ 3161413 □ 3161424 □ 3161425 □ 3161424 □ 32 3161424 □ 33 4567411 □ 35 3975681 □ 37 3368212 □ 2248593 □ Δ 2248594 □ Δ 2248742 □ Δ 2248743 □ Δ 2248742 □	1 1		
* 8   3975711   Cassette door ass'y (TAPE   29   3975712   Cassette door ass'y (TAPE   Cassette door ass'y (Tor BS)   Toransforme   Cassette door ass'y (TAPE   Cassette			` '
<ul> <li>9   3975713</li> <li>10   3975712</li> <li>11   3975714</li> <li>12   3201103</li> <li>13   3201104</li> <li>14   3933811</li> <li>15   4585811</li> <li>16   3904811</li> <li>17   3904821</li> <li>18   3904831</li> <li>19   3904841</li> <li>20   3305441</li> <li>21   3346233</li> <li>23   3741306</li> <li>24   3340322</li> <li>25   8691412</li> <li>26   3975701</li> <li>27   3975691</li> <li>28   8691412</li> <li>39   3161401</li> <li>30   3161412</li> <li>3161412</li> <li>3161412</li> <li>3161422</li> <li>3161423</li> <li>3161424</li> <li>3161424</li> <li>3161424</li> <li>3161424</li> <li>3161425</li> <li>3161426</li> <li>3975731</li> <li>3161427</li> <li>3161428</li> <li>3161429</li> <li>316421</li> <li>32   3161421</li> <li>33   34567411</li> <li>34   4567411</li> <li>35   3975681</li> <li>375681</li> <li>375681</li> <li>3768212</li> <li>38   2588541</li> <li>4567412</li> <li>38   2248593</li> <li>4567412</li> <li>39   2248593</li> <li>40   2248742</li> <li>41   2749582</li> <li>42   3913006</li> <li>43   2749582</li> <li>44   2749582</li> <li>45   27497582</li> <li>46   2749582</li> <li>47   2749582</li> <li>48   2749582</li> <li>49   29   29   50   50   50   50   50   50   50   5</li></ul>			
• 10         3975712         Cassette door ass'y (TAPE           • 11         3975714         Cassette door ass'y (TAPE           • 12         3201103         Front panel ass'y (for BS)           • 13         3201105         Front panel ass'y (for KS, Zing)           14         3933811         13φ Roller           15         4585811         3φ BT screw           16         3904811         Scale plate           17         3904821         Level indicator sheet           • 18         3904831         Scale plate           19         3904821         Level indicator sheet           • 19         3904821         Level indicator sheet           • 19         3904821         Level indicator sheet           • 19         3904821         Sheet           20         3305441         Tuning ass'y           21         3387651         Pointer           22         3346233         Pulley           23         0741306         26φ × 6 bind screw           25         8691412         3φ × 12 BT screw           26         3975701         M Circuit board holder           27         3975691         Pulley holder           30         4575444 <th></th> <th>1 1</th> <th></th>		1 1	
o 11 3975714  * 12 3201103 o 13 3201104	1		
* 12   3201103   Front panel ass'y   Front panel ass'y (for BS)   3201104   3201105   Front panel ass'y (for KS, Zi 13 4 3933811   15   4585811   16   3904811   17   3904821   Level indicator sheet   18   3904831   Sheet   20   3305441   Sheet   20   3305441   Tuning ass'y   Pointer   22   3346233   Pulley   2.6φ × 6 bind screw   24   3340322   Spring M   25   8691412   3φ × 12 BT screw   M Circuit board holder   27   3975691   * 28   8691412   3φ × 12 BT screw   3161401   * 30   4575444   6 31   3161412   36 × 12 BT screw   with wash   31   3161412   36 × 12 BT screw   3161413   Back board (for BS, SA)   3161424   Back board (for KS)   33   4567412   3φ × 8 DT screw   34   4567411   35   3975681   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind screw   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind screw   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw			
13   3201104   3201105   Front panel ass'y (for BS)   Front panel ass'y (for KS, Zi 13φ Roller   15   4585811   3904821   Level indicator sheet   17   3904821   Level indicator sheet   18   3904831   Sheet   20   3305441   Sheet   21   3387651   Pointer   22   3346233   Pulley   2.6φ × 6 bind screw   24   3340322   Spring M   25   8691412   3φ × 12 BT screw   26   3975701   M Circuit board holder   27   3975691   M Circuit board holder   28   8691412   3φ × 12 BT screw   3161401   Bottom board   4φ×12DT screw with wash   0   3161413   Back board (for BS, SA)   3161412   Back board (for BS)   3161423   Back board (for KS)   3161424   Back board (for KS)   3161424   Back board (for KS)   33   4567412   Back board (for KS)   3975681   Back board (for KS)   3975681   REC lever   3368212   REC spring   GT-30FW cassette deck mecha.   * 39 ♠   2248593   Transformer AC 240V (for BS, SA)   ↑ 2248742   Transformer AC 240V (for SS, KS)   O ↑ 2248742   Transformer AC 240V (for SS, KS)   Power supply cord (for SA)   Power su			- ` ` ′
3201105 14 3933811 15 4585811 16 3904811 17 3904821 18 3904831 0 19 3904841 20 3305441 21 3387651 22 3346233 23 0741306 24 3340322 25 8691412 26 3975701 27 3975691 28 8691412 29 3161401 29 3161401 20 3161412 0 3161412 0 3161413 0 3161412 0 3161412 0 3161413 0 3161412 0 3161823 0 3975761			
14		1 1	
15	14		
16    3904811	1	i 1	
17   3904821   Level indicator sheet   18   3904831   Sheet   Sheet   Sheet   20   3305441   Tuning ass'y   Pointer   22   3346233   Pulley   2.6φ × 6 bind screw   Spring M   3φ × 12 BT screw   M Circuit board holder   Pulley holder   27   3975691   Bottom board   4φ×12DT screw with wash   30   4575444   457512   Back board (for RS)   Back board (for RS)   Back board (for RS)   3161412   Back board (for RS)   Back board (for RS)   3161422   3161423   Back board (for RS)   3161424   Back board (for RS)   3161423   Back board (for RS)   3161424   Back board (for RS)   3364212   Back board (for RS)   3368212   REC spring   GT-30FW cassette deck mecha.   39 Δ   2248593   Transformer AC 240V (for BS, SA)   Transformer AC 240V (for RS)   Transformer AC 240V (for RS)   Transformer AC 240V (for ZS, KS)   Transformer AC 240V (fo	1		
0 19   3904841   Sheet   Tuning ass'y   Pointer   22   3346233   Pulley   2.6φ × 6 bind screw   24   3340322   Spring M   3φ × 12 BT screw   26   3975701   M Circuit board holder   Pulley holder   28   8691412   3φ × 12 BT screw   3975691   Bottom board   4φ×12DT screw with wash   30   4575444   4575444   3161412   3161412   3161412   3161412   3161412   3161423   3161424   32   3161424   33   4567412   34 × 8 DT screw   34 × 4567411   35   3975681   3975681   375681   361424   362 × 6 bind head screw   MIC JACK P.W.B. holder   39 × 6 bind head screw   MIC JACK P.W.B. holder   REC lever   REC spring   GT-30FW cassette deck mecha.   * 39 ★ 2248593   Transformer AC 240V (for BS, SA)   Transformer AC 240V (for SS, KS)   Transformer AC 240V (for SS, KS)   Transformer AC 240V (for SS, KS)   Power supply cord (for SA)   Power supply cord (for ZS, KS)   44 × 4484792   2φ × 5 DT bind screw   8φ Roller   Roll   Roll	17		•
20 330544  Tuning ass'y 21 3387651  Pointer 22 3346233  Pulley 23 0741306  2.6φ × 6 bind screw 24 3340322  Spring M 25 8691412  3φ × 12 BT screw 26 3975701  M Circuit board holder 27 397569  Pulley holder 28 8691412  3φ × 12 BT screw 29 3161401  Bottom board  * 30 4575444  4φ×12DT screw with wash 0 31 3161412  Back board (for BS, SA) 13161412  Back board (for KS) 3161423  Back board (for KS) 3161424  Back board (for KS) 3161424  Back board (for KS) 3161423  Back board (for KS) 3161424  Back board (for KS) 3161424  Back board (for KS) 3161425  Back board (for KS) 3161426  Back board (for KS) 3161427  Back board (for KS) 3161428  Back board (for KS) 3161429  Back board (for KS) 3161421  Back board (for KS) 3161422  Back board (for KS) 3161423  Back board (for KS) 3161424  Back board (for KS) 3161424  Back board (for KS) 3161425  Back board (for KS) 3161426  Back board (for KS) 3161427  Back board (for KS) 3161428  Back board (for KS) 3161429  Back board (for KS) 32 2161419  Back board (for KS) 33 4567412  Back board (for KS) 34 567412  Back board (for KS) 34 657412  Back board (for KS) 34 657412  Back board (for KS) 34 657412  Back board (for KS) 35 6814120	<b>*</b> 18	3904831	Sheet
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21 3387651 Pointer 22 3346233 Pulley 23 0741306 2.6φ × 6 bind screw 24 3340322 Spring M 25 8691412 3φ × 12 BT screw 26 3975701 M Circuit board holder 27 3975691 Pulley holder 28 8691412 3φ × 12 BT screw 30 4575444 4φ×12DT screw with wash 0 31 3161412 Back board (for BS, SA) 3161413 Back board (for KS) 3161424 Back board (for KS) 3161423 Back board (for KS) 3161424 Back board (for KS) 3161424 Back board (for KS) 3161423 Back board (for KS) 3161424 Back board (for KS) 3161424 Back board (for KS) 3161427 Back board (for KS) 32 3161424 Back board (for KS) 33 4567412 3φ × 8 DT screw 34 4567411 3φ × 6 bind head screw 35 3975681 MIC JACK P.W.B. holder 36 3975731 REC lever 37 3368212 REC spring 37 3368212 REC spring 38 2588541 Transformer AC 240V (for BS, SA)  ★ Δ 2248594 Transformer AC 240V (for BS)	20	3305441	Tuning ass'y
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25 8691412 3φ × 12 BT screw 3975701 M Circuit board holder 27 3975691 Pulley holder 28 8691412 3φ × 12 BT screw 30 4575444 4φ × 12 DT screw with wash 0 31 3161412 Back board (for BS, SA) 0 3161414 Back board (for KS) 32 3161422 Back board (for KS) 33 4567412 3φ × 8 DT screw 34 4567411 3φ × 6 bind head screw 34 4567411 3φ × 6 bind head screw 36 3975731 REC lever 37 3368212 REC spring 38 2588541 GT-30FW cassette deck mecha.  1 39 Δ 2248593 Transformer AC 240V (for BS, SA)  2 248742 Transformer AC 240V (for SS) 41 Δ 2749582 Power supply cord (for SA) 2749622 Power supply cord (for SA) 2749622 Power supply cord (for SA) 4484792 Power supply cord (for SA) 297521 Power supply cord (for SA) 4484792 Power supply cord (for SA) 4484792 Power supply cord (for SA) 4484792 Power supply cord (for SA) 45935291 Rp Roller	23	0741306	$2.6\phi \times 6$ bind screw
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27 3975691 Pulley holder 28 8691412 3φ × 12 BT screw 30 4575444 4φ×12DT screw with wash 3161412 Back board (for BS, SA) 3161413 Back board (for KS) 3161423 Back board (for BS) 3161424 Back board (for SS) 3161424 Back board (for SS) 3161424 Back board (for KS) 32 3161424 Back board (for KS) 33 4567412 3φ × 8 DT screw 34 4567411 3φ × 6 bind head screw 37 3368212 REC spring 38 2588541 GT-30FW cassette deck mecha.  * 39 Δ 2248593 Transformer AC 240V (for BS, SA)  * Δ 2248742 Transformer AC 240V (for SS, SA)  * Δ 2248742 Transformer AC 240V (for SS) 0 Δ 2248742 Transformer AC 240V (for SS, SA)  * Δ 2749582 Power supply cord (for SA) 2749622 Power supply cord (for SA) Power supply cord (for SA) Power supply cord (for SA) 42 3913006 Bushing for ferrite antenna lea 43 2677911 J102 FM antenna socket (except ZS) 44 4484792 2φ × 5 DT bind screw 45 3935291 8φ Roller	1		
★ 28         8691412         3φ × 12 BT screw           ★ 29         3161401         Bottom board           ★ 30         4575444         4φ×12DT screw with wash           ○ 3161412         Back board (for BS, SA)           ○ 3161413         Back board (for KS)           32         3161423         Back board (for KS)           33         4567412         Back board (for KS)           34         4567412         3φ × 8 DT screw           34         4567412         3φ × 6 bind head screw           36         3975681         MIC JACK P.W.B. holder           36         3975731         REC lever           37         3368212         REC spring           38         2588541         Transformer AC 240V (for BS, SA)           ★ 39 Δ         2248593         Transformer AC 240V (for BS, SA)           ★ Δ         2248742         Transformer AC 240V (for BS)           Φ Δ         2749582         Power supply cord (for SA)           Power supply cord (for SA)         Power supply cord (for SA)           2748752         Power supply cord (for ZS, KS)           42         3913006         Bushing for ferrite antenna lea           43         2677911         J102 FM antenna socket			
* 29         3161401         Bottom board           * 30         4575444         4φ×12DT screw with wash           0         3161412         Back board (for BS, SA)           0         3161414         Back board (for KS)           32         3161422         Back board (for KS)           33         4567412         Back board (for KS)           34         4567412         3φ×8 DT screw           34         4567411         3φ×6 bind head screw           36         3975731         REC lever           37         3368212         REC spring           38         2588541         Transformer AC 240V (for BS, SA)           4         2248593         Transformer AC 240V (for BS, SA)           5         40 Δ         2248742         Transformer AC 240V (for BS)           6         2248743         Transformer AC 240V (for SA)           9         2749582         Power supply cord (for SA)           10         2749582         Power supply cord (for SA)           9         2749622         Power supply cord (for SA)           9         2013006         Bushing for ferrite antenna lea           42         3913006         Bushing for ferrite antenna socket (except ZS)           44<		1 1	-
* 30       4575444       4φ×12DT screw with washed state of the state o		i I	· •
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0		, ,	•
0 3161414 Back board (for KS) 32 3161422 Back board (for BS) 3161424 Back board (for ES) 3161424 Back board (for KS) 33 4567412 3φ × 8 DT screw 34 4567411 3φ × 6 bind head screw MIC JACK P.W.B. holder 36 3975731 REC lever 37 3368212 REC spring 38 2588541 GT-30FW cassette deck mecha.  ★ 39 △ 2248593 Transformer AC 240V (for BS, SA)  ★ △ 2248742 Transformer AC 220V (for ZS, KS)  ○ △ 2248742 Transformer AC 240V (for SS)  ■ △ 2248742 Transformer AC 220V (for ZS, KS)  ■ △ 2749582 Power supply cord (for SA) Power supply cord (for SA) Power supply cord (for SA)  ■ 2677911 J102 FM antenna socket (except ZS)  44 4484792 2φ × 5 DT bind screw  ■ 3913006 Bushing for ferrite antenna lea J102 FM antenna socket (except ZS)  44 4484792 2φ × 5 DT bind screw			` ' '
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3161424 Back board (for KS)  34 4567412 3φ × 8 DT screw  34 4567411 3φ × 6 bind head screw  36 3975731 REC lever  37 3368212 REC spring  38 2588541 GT-30FW cassette deck mecha.  ■ 39 △ 2248593 Transformer AC 240V (for BS, SA)  ■ △ 2248742 Transformer AC 220V (for BS)  □ △ 2248743 Transformer AC 240V (for BS)  □ △ 2248742 Transformer AC 240V (for BS)  □ △ 2749582 Power supply cord (for SA)  2749622 Power supply cord (for SA)  2748752 Power supply cord (for SA)  2748752 Power supply cord (for SA)  2677911 J102 FM antenna socket (except ZS)  44 4484792 2φ × 5 DT bind screw  45 3935291 8φ Roller	32		
33		. i	
34 4567411 3φ × 6 bind head screw 35 3975681 MIC JACK P.W.B. holder 36 3975731 REC lever 37 3368212 REC spring 38 2588541 GT-30FW cassette deck mecha.  ★ 39 ♠ 2248593 Transformer AC 240V (for BS, SA)  ★ ♠ 2248594 Transformer AC 220V (for ZS, KS)  ○ ♠ 2248742 Transformer AC 220V (for BS)  ○ ♠ 2248742 Transformer AC 220V (for BS)  ○ ♠ 2248742 Transformer AC 220V (for BS)  ○ ♠ 2749582 Power supply cord (for BS)  ▼ 2749622 Power supply cord (for SA)  Power supply cord (for SA)  2748752 Power supply cord (for SA)  Power supply cord (for SA)  2677911 J102 FM antenna socket (except ZS)  44 4484792 2φ × 5 DT bind screw  45 3935291 8φ Roller	33		
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38 2588541 GT-30FW cassette deck mecha.  * 39 Δ 2248593 Transformer AC 240V (for BS, SA)  • Δ 2248594 Transformer AC 220V (for ZS, KS)  0 40 Δ 2248742 Transformer AC 240V (for BS)  1 Δ 2749582 Power supply cord (for SA)  2749622 Power supply cord (for SA)  2749752 Power supply cord (for SA)  42 3913006 Bushing for ferrite antenna lea  3677911 J102 FM antenna socket (except ZS)  44 4484792 2φ × 5 DT bind screw  45 3935291 8φ Roller			
* 39 ♠ 2248593   Transformer AC 240V (for BS, SA)     * ♠ 2248594   Transformer AC 220V (for ZS, KS)     * ♠ 2248742   Transformer AC 240V (for BS)     • ♠ 2248743   Transformer AC 240V (for BS)     • ♠ 2749582   Power supply cord (for BS)     * 2749622   Power supply cord (for SA)     * 2749752   Power supply cord (for ZS, KS)     42 3913006   Bushing for ferrite antenna lead     43 2677911   J102 FM antenna socket (except ZS)     44 4484792   2φ × 5 DT bind screw     45 3935291   8φ Roller			
★ 39 △       2248593       Transformer AC 240V (for BS, SA)         ★ Δ 2248594       Transformer AC 220V (for ZS, KS)         ○ 40 △       2248742       Transformer AC 240V (for BS)         ○ Δ 2248743       Transformer AC 220V (for ZS, KS)         41 △       2749582       Power supply cord (for BS)         ★ 2749622       Power supply cord (for SA) 2748752         Power supply cord (for ZS, KS)         42 3913006       Bushing for ferrite antenna lea 2677911         J102 FM antenna socket (except ZS)         44 4484792       2φ × 5 DT bind screw         45 3935291       8φ Roller	38	2588541	
(for BS, SA)  Transformer AC 220V (for ZS, KS)  0 40 △ 2248742  Transformer AC 240V (for BS)  0 △ 2248743  Transformer AC 220V (for BS)  1 Transformer AC 220V (for BS)  2749582  Power supply cord (for BS)  2749622 Power supply cord (for SA) 2748752 Power supply cord (for ZS, KS)  42 3913006 Bushing for ferrite antenna lea 43 2677911 J102 FM antenna socket (except ZS)  44 4484792 2φ × 5 DT bind screw 45 3935291 8φ Roller		00.40.50	
	<b>*</b> 39 🖎	2248593	
(for ZS, KS)  1		2248594	
0 40 \( \triangle \) 2248742   Transformer AC 240V (for BS)     0 \( \triangle \) 2248743   Transformer AC 220V (for ZS, KS)     41 \( \triangle \) 2749582   Power supply cord (for BS)     2749622   Power supply cord (for SA)     2748752   Power supply cord (for ZS, KS)     42   3913006   Bushing for ferrite antenna lead of the company of the co		5074	
O	0 40 ₺	2248742	Transformer AC 240V
(for ZS, KS)  41 △ 2749582 Power supply cord (for BS)  2749622 Power supply cord (for SA)  2748752 Power supply cord (for ZS, KS)  42 3913006 Bushing for ferrite antenna lea  2677911 J102 FM antenna socket (except ZS)  44 4484792 2φ × 5 DT bind screw  45 3935291 8φ Roller	ا م	2240742	
41 Δ 2749582 Power supply cord (for BS)  2749622 Power supply cord (for SA)  2748752 Power supply cord (for ZS, KS)  42 3913006 Bushing for ferrite antenna lea  2677911 J102 FM antenna socket (except ZS)  44 4484792 2φ × 5 DT bind screw  45 3935291 8φ Roller			
Power supply cord (for SA)	41.6		
2748752   Power supply cord (for ZS, KS)	•		
42 3913006 Bushing for ferrite antenna lea 43 2677911 J102 FM antenna socket (except ZS) 44 4484792 2φ × 5 DT bind screw 45 3935291 8φ Roller			
42   3913006   Bushing for ferrite antenna lea   2677911   J102 FM antenna socket (except ZS)   44   4484792   2φ × 5 DT bind screw   3935291   8φ   Roller   Roll		,	
(except ZS) 44 4484792 2φ × 5 DT bind screw 45 3935291 8φ Roller	42	3913006	Bushing for ferrite antenna lead
44   4484792   2φ × 5 DT bind screw 45   3935291   8φ   Roller	43	2677911	J102 FM antenna socket
45 3935291 8φ Roller		ı I	
1 '	1		•
46   4575453   $4\phi \times 12$ DT sit screw (L)	1 1		·
1 1 1 .	1 1		
0 47   4406765   Hinge (KS only)	1 1		
o 48   3975741   Dust cover (KS only)	0 48	3975741	Dust cover (KS only)

## PRINTED WIRING BOARD · PRINTPLATTEN · PLAN DE BASE T-22L, T-21L

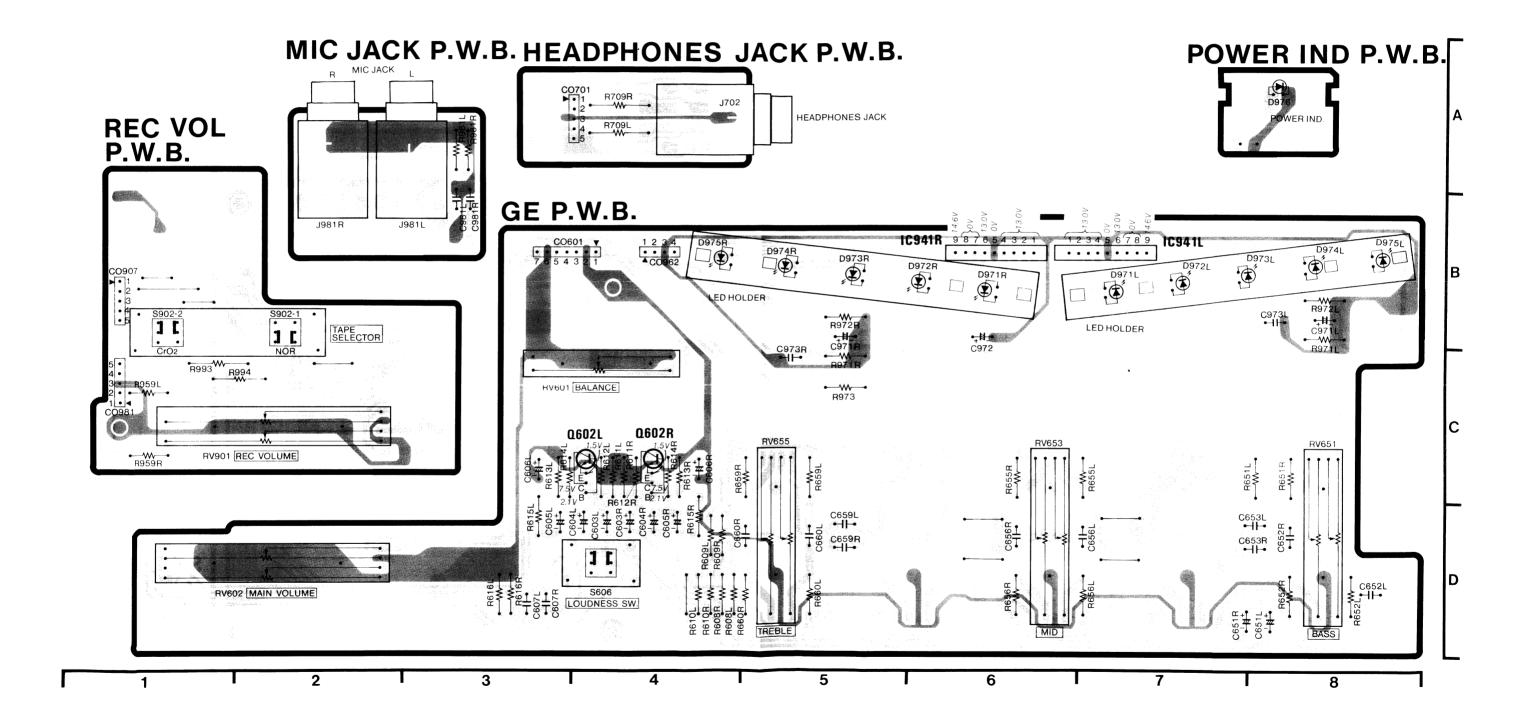
[Earth, Cother]

- \* : Axial lead cylindrical ceramic capacitor
- \* : Zylindrischer Keramikkondensator mit axialer Zuleitung
- \* : Condensateur céramique cylindrique à conducteur axial



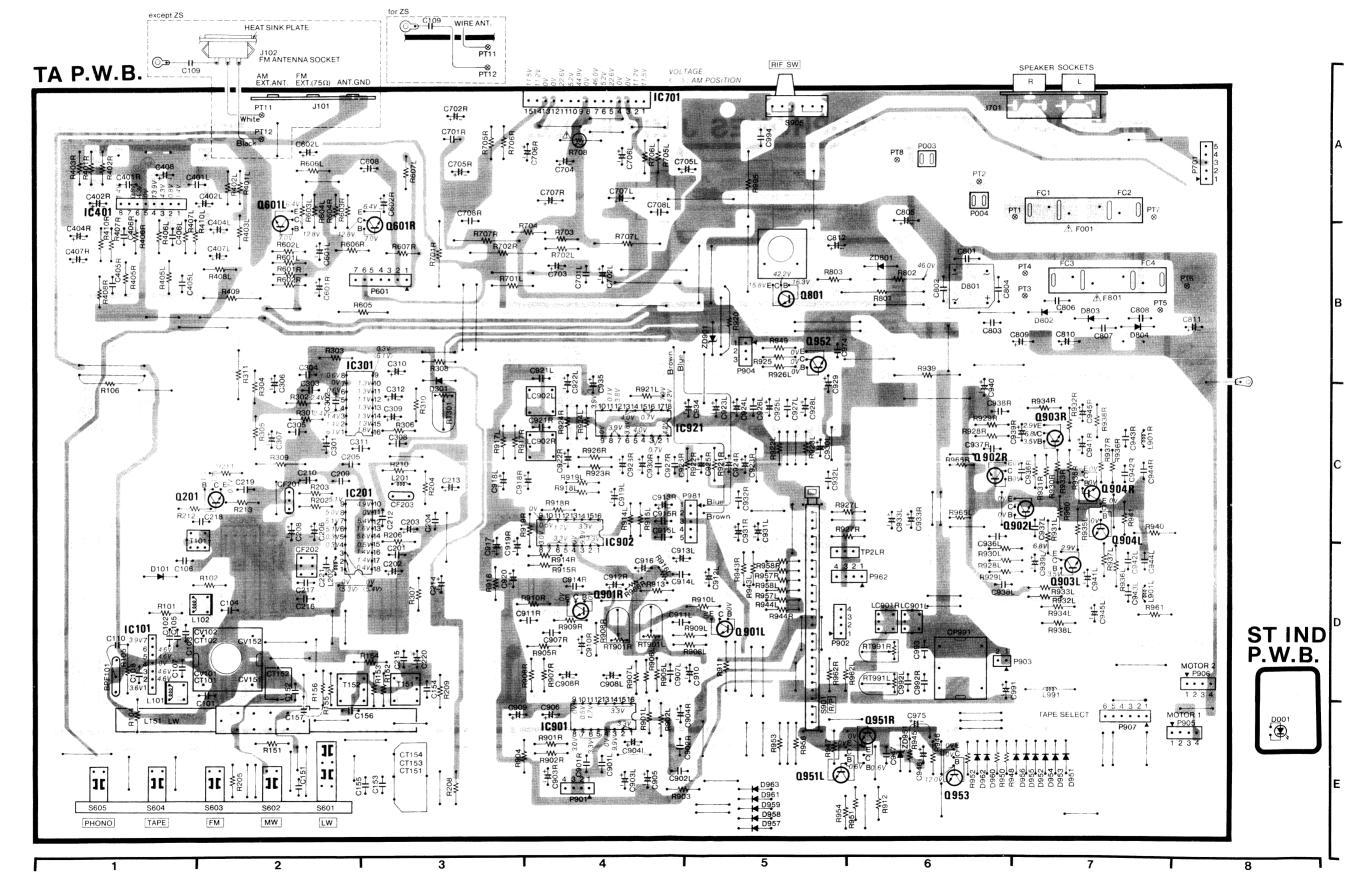
## PRINTED WIRING BOARD · PRINTPLATTEN · PLAN DE BASE T-22L, T-21L

- [ Earth, :Other]
- \* : Axial lead cylindrical ceramic capacitor
- \* : Zylindrischer Keramikkondensator mit axialer Zuleitung
- \* : Condensateur céramique cylindrique à conducteur axial



## PRINTED WIRING BOARD · PRINTPLATTEN · PLAN DE BASE T-55L, T-51L

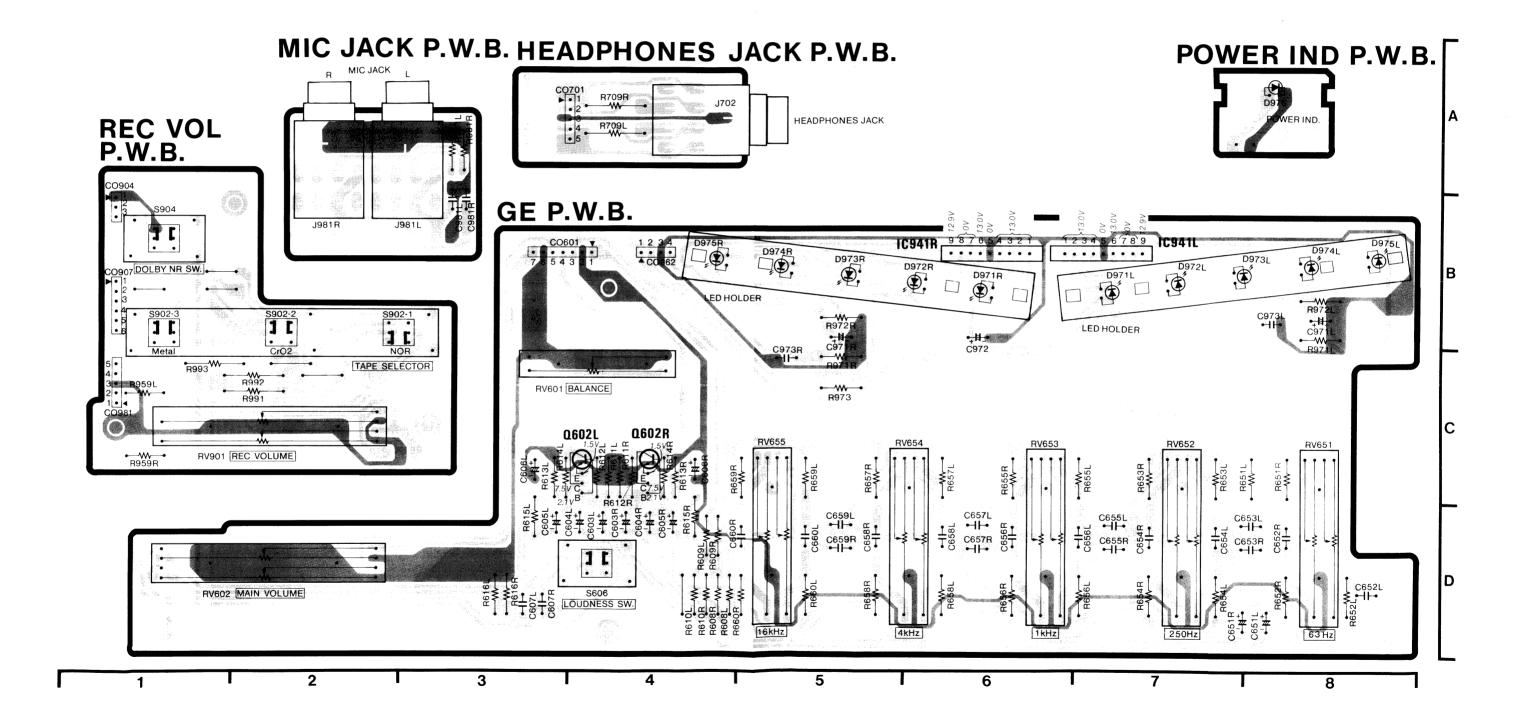
- [ : Earth, : Other]
- \* : Axial lead cylindrical ceramic capacitor
- \*: Zylindrischer Keramikkondensator mit axialer Zuleitung
- \* : Condensateur céramique cylindrique à conducteur axial



PRINTED WIRING BOARD · PRINTPLATTEN · PLAN DE BASE T-55L, T-51L

:Earth, : Other

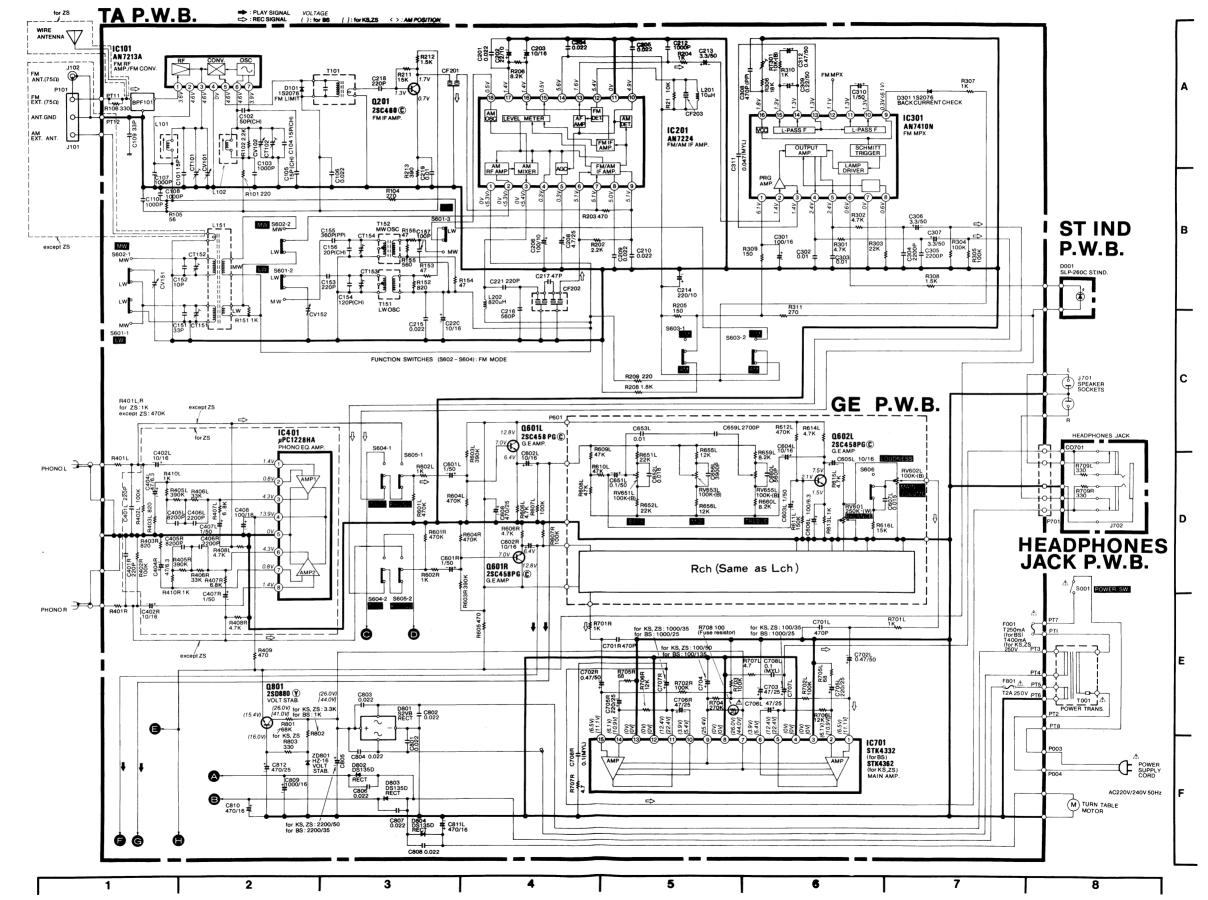
- \* : Axial lead cylindrical ceramic capacitor
- \*: Zylindrischer Keramikkondensator mit axialer Zuleitung
- \* : Condensateur céramique cylindrique à conducteur axial



## CIRCUIT DIAGRAM · SCHALTPLAN · PLAN DE CIRCUIT T-221. T-211.

-CAUTION -

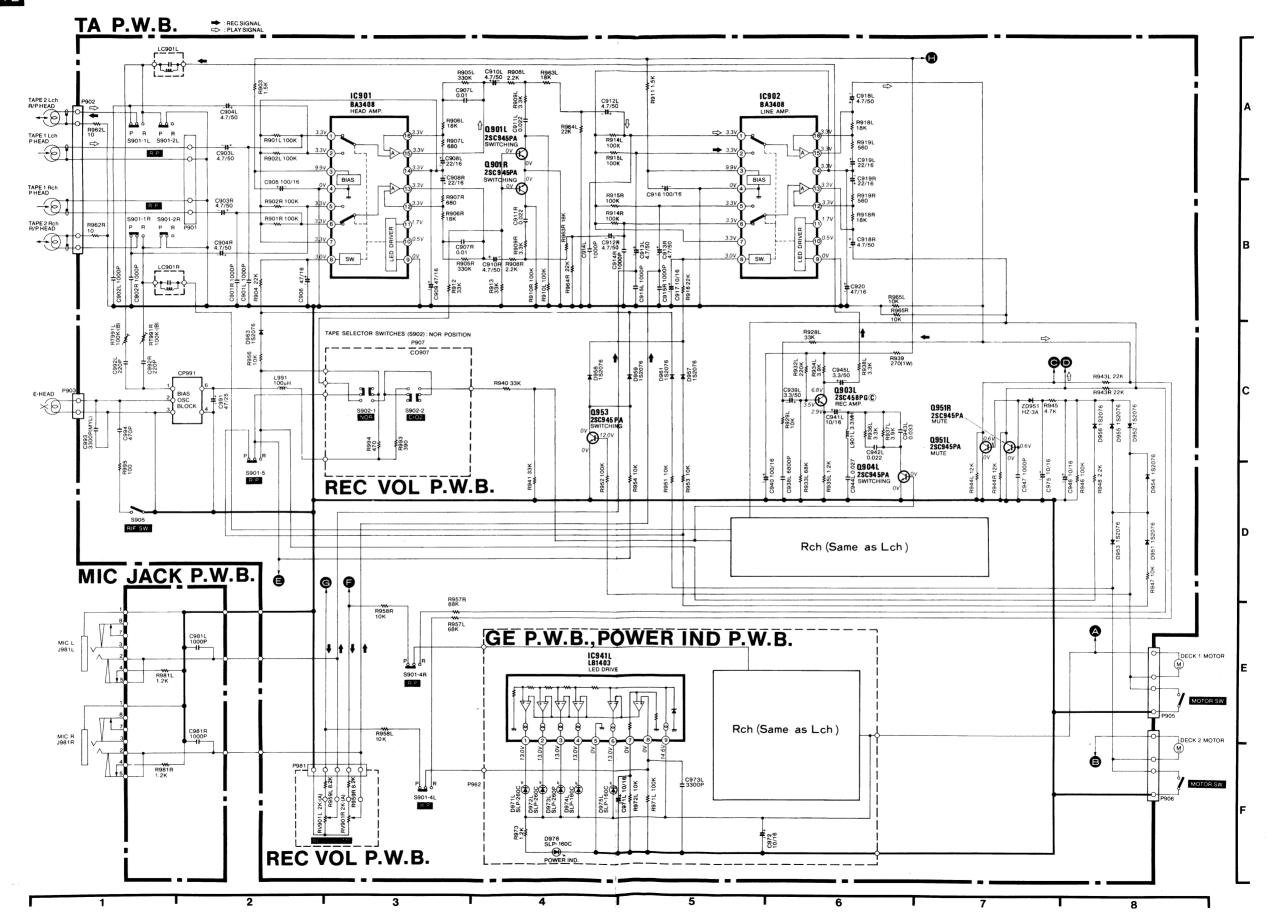
- \* : Axial lead cylindrical ceramic capacitor
- \* : Zylindrischer Keramikkondensator mit axialer Zuleitung
- \* : Condensateur céramique cylindrique à conducteur axial



## CIRCUIT DIAGRAM · SCHALTPLAN · PLAN DE CIRCUIT T-22L, T-21L

#### CAUTION

- \* : Axial lead cylindrical ceramic capacitor
- \*: Zylindrischer Keramikkondensator mit axialer Zuleitung
- \* : Condensateur céramique cylindrique à conducteur axial

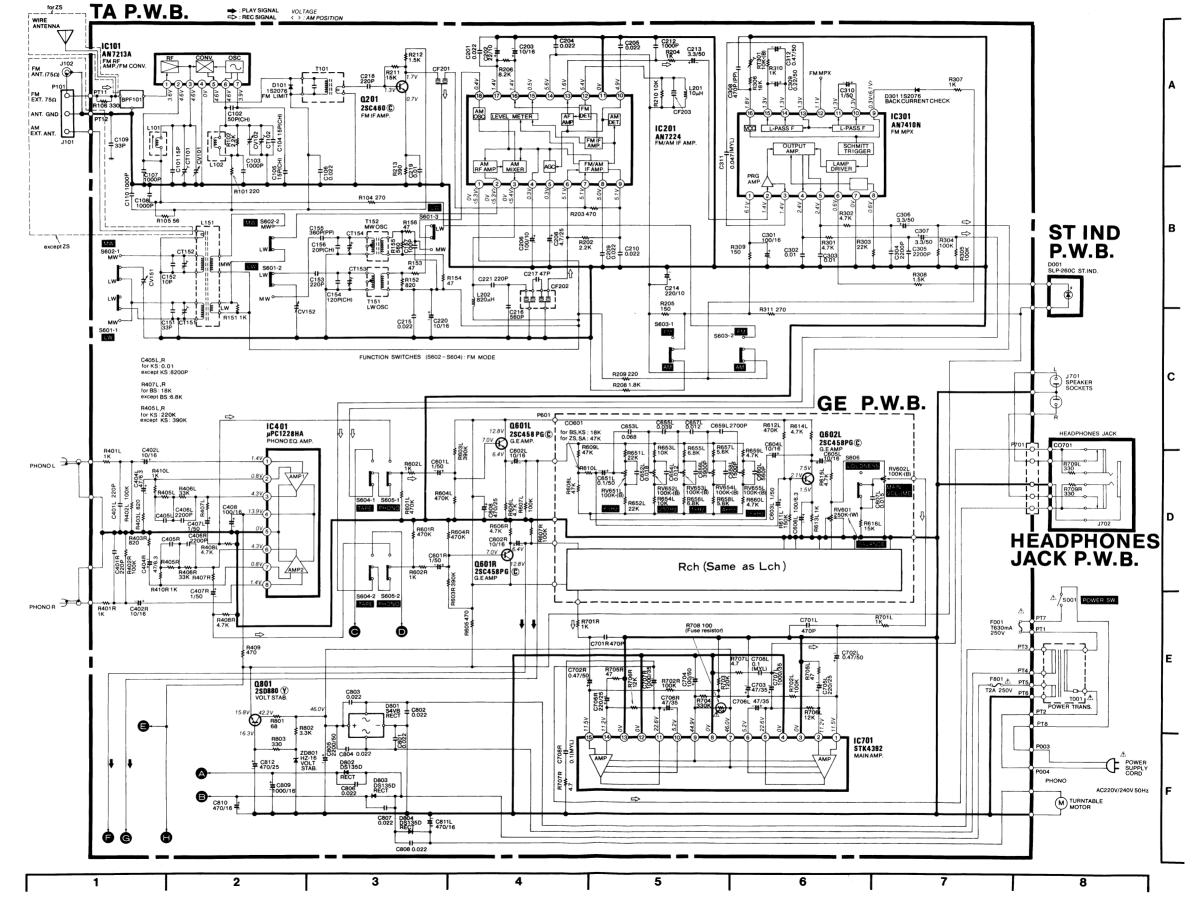


## CIRCUIT DIAGRAM · SCHALTPLAN · PLAN DE CIRCUIT

T-55L, T-51L

#### AUTION -

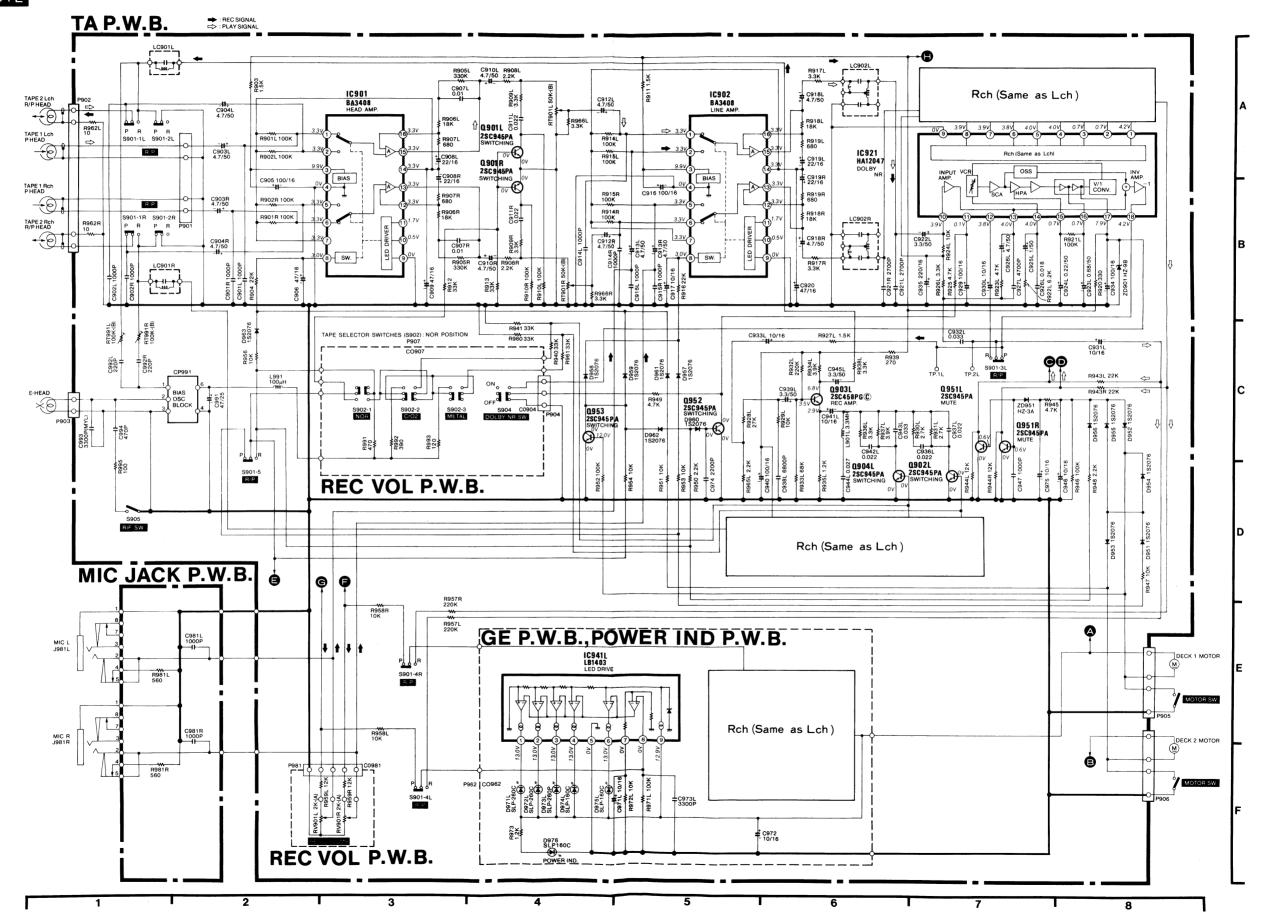
- \* : Axial lead cylindrical ceramic capacitor
- \* : Zylindrischer Keramikkondensator mit axialer Zuleitung
- \* : Condensateur céramique cylindrique à conducteur axial



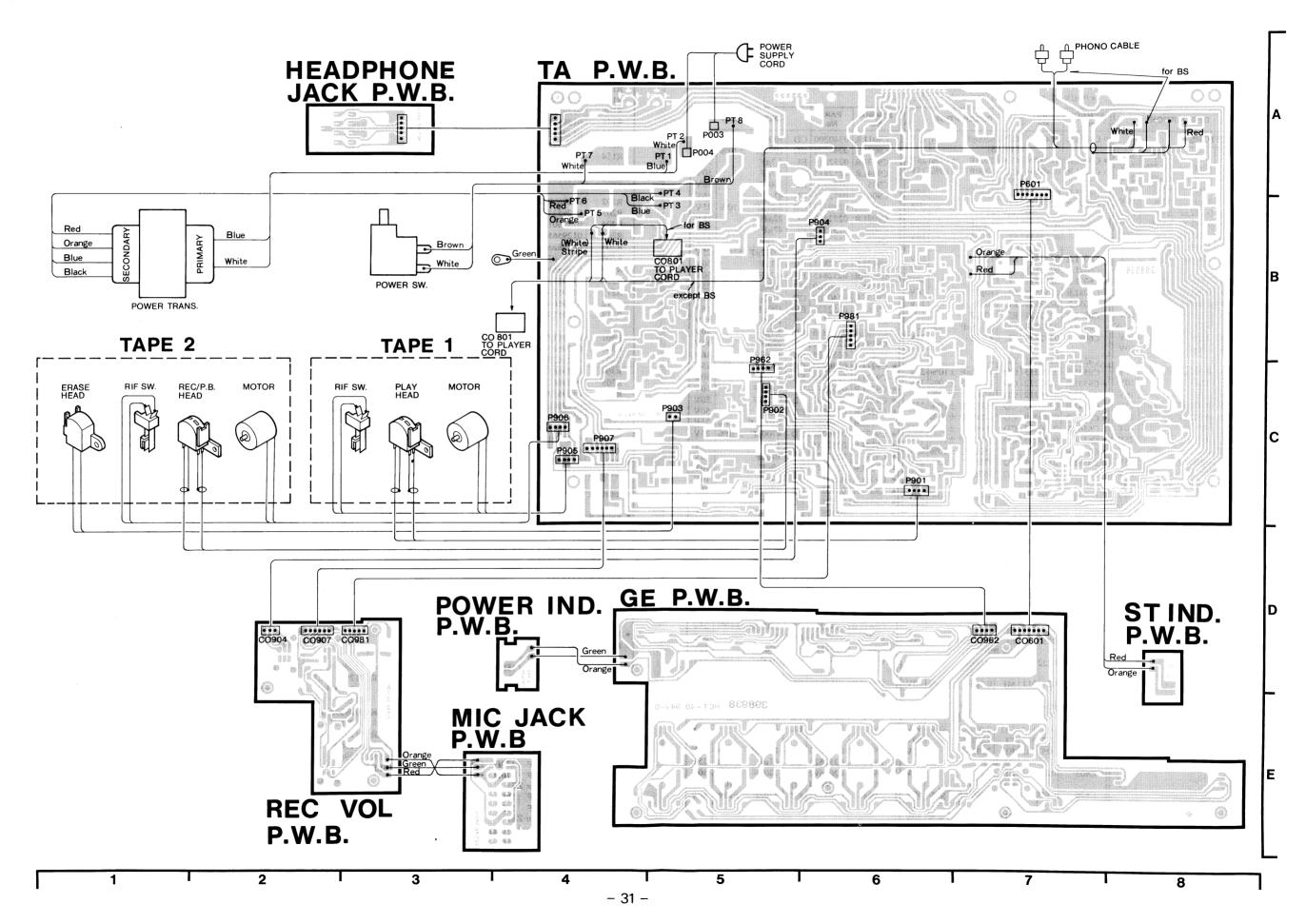
## CIRCUIT DIAGRAM · SCHALTPLAN · PLAN DE CIRCUIT T-55L, T-51L

CAUTION

- \* : Axial lead cylindrical ceramic capacitor
- \* : Zylindrischer Keramikkondensator mit axialer Zuleitung
- \* : Condensateur céramique cylindrique à conducteur axial



### WIRING DIAGRAM · SCHALTSCHEMA · SCHEMA DE CABLAGE



### REPLACEMENT PARTS LIST · ERSATZTEILISTE · TABLEAU DES PIECE

CD : Ceramic discal EL : Electrolytic

ZS: W. Germany

MF: Mylar, film

BS: U.K.

PP: Polypro-pylene CF: Carbon film

ME : Metal

FR: Fuse resistor

KS: Sweden

MO: Metal, oxide

SA: Australia

o marked parts used for only T-22L, T-21L, \*marked parts used for only T-55L, T-51L

SYMBOL No.	PART No.		DESCRI			SYMBOL No.	PART No.		DESCRI			_	SYMBOL No.	PART No.		DESCRI	PTION	
	<u> </u>	PACI	TORS	- Wa		o C405LR	0240211	CD	8200pF	±10%	25 V	r		0240200	CD	1000pF	±10%	25 V
C101	0208664	CD	15pF	±5%	50V			(for 2	. ′					0240200	CD	1000pF	±10%	25 V
C102	0246415	CD	50pF	±0.25%		* C406LR • C406LR			2200P 2200P	±10% ±10%	) I			0252815		4.7μF		50V
C103	0240200	CD	1000pF	±10%	25 V	0 C400LK	0240204	(for 2		±10%	23 V	1			EL	4.7μF		50V
C104	0246444	CD	15pF	±5%	50V	* C407LR	0252811	١`	1μF		50V		C905 C906	0252531 0252525		100μF		16V
C105	0246444	CD	15pF	±5%	50V	11	0252811	ł	1μF		50V				EL CD	47μF 0.01μF	+10%	16V 25V
C106	0240216	CD	$0.022\mu F$		25 V			(for 2	ZS)						EL	22μF	±1070	16V
C107	0240200	CD		±10%	25 V	* C408	0252531		100μF		16V		C909	0252525		47μF		16V
C108 C109	0240200 0248672	CD CD	1000pF 33pF	±10% ±5%	25 V 50 V	o C408	0252531		100μF		16V			0252815		4.7μF		50V
C110	0244161	CD	1000pF	+80 -20%	50V	C601LR	0252811	(for 2	23)  1μF		50V		C911LR	0240216	CD	0.022μF	±10%	25 V
CIIO	0211101		Тооорг	-20	501		0252521	EL	10μF		16V			0252815		4.7μF		50V
C151	0208672	CD	33pF	±5%	50V		0252811	EL	1μF		50V	ı		0252815		4.7μF		50V
C152	0208650	CD	10pF	±5%	50V		0252521	EL	10μF		16V			0240200	CD	1000pF		25 V
C153	0248692	CD	220pF	±5%	50V	C605LR	0252521	EL	10μF		16V			0240200 0252531	CD	1000pF	±10%	25 V 16 V
C154	0246466	CD	120pF	±5%	50V	C606LR	0252231	EL	100μF		6.3V		C916 C917	0252531		100μF 10μF		16V
C155	0268321	PP	360pF	±5%	100V	C607LR	0240214	CD	0.015μF	±10%		ı		0252815		4.7μF		50V
C156	0246447	CD	20pF	±5%	50V	C608	0252635	EL	470μF		25 V	ı		0252522		22μF		16V
C157	0248684	CD	100pF	±5%	50V	CCCLLD	0252001		0.5		5077	ı	C920	0252525		47μF		16V
C201	0240216	CD	0.022μF	+10%	25 V	C651LR C652LR	0252801	EL	0.1μF 0.018μF	±100⁄	50V	*		0240205	CD	2700pF	±10%	25 V
C201	0252322	EL	22μF	±1070		* C653LR		CD	0.018µF			*	C922LR	0252813	EL	3.3μF		50V
C203	0252521	1	10μF			o C653LR	}	CD	0.008μΓ					0252876		0.68μF		50V
C204	0240216	l .	0.022µF	±10%	25 V	* C654LR		CD	0.012µF					0252802		0.22μF		50V
C205	0240216	CD	0.022µF	±10%	25 V	* C655LR	1	CD	0.039µF				C925LR		EL	1μF		50V
C206	0252331	EL	100μF		10V	C656LR	0240207	CD	3900pF					0240215	CD	0.018μF 4700pF		25 V
C208	0252615	1	4.7μF			* C657LR	l .	CD	0.012μF	±10%	25 V		C927LR	0240208	CD EL	4/00pF 4.7μF	±10%	25 V 50 V
C209	0240216	CD	$0.022\mu$ F		25 V	* C658LR		CD	1500pF				C928LR C929	0252531		4.7μF 100μF		16V
C210	0240216	1	0.022μF		25 V		0240205	CD		±10%	, i			0252531		10μF		16V
C212	0240200	CD	1000pF	±10%	25 V 50 V	C660LR	0208526	CD	560pF	±5%	50V			0252521	EL	10μF		16V
C213 C214	0252813	1	3.3μF 220μF		10V	C701LR	0209723	CD	470pF	±10%	50V	*	C932LR	0240218	CD	0.033μF	±10%	25 V
C214	0232332	1	0.022μF	+10%		* C701LR	ı	EL	0.47μF	±10%	50V	*	C933LR	0252521	EL	10μF		16V
C216	0208526	CD	560pF	±5%		* C702LK	0252725	EL	47μF		35 V		C934	0252531		100μ <b>F</b>		16V
C217	0208676	CD	47pF	±5%		o C703	0252625	EL	47μF		25 V		C935	0252532		220μF		16V
C218	0208692	CD	220pF	±5%		* C704	0252831	EL	100μF		50V	*		0240216		0.022μF		
C219	0240212	CD	0.01μF	±10%	25 V	o C704	0252731	EL	100μF		35 V	ı		0240216		0.022μF		25 V 25 V
C220	0252521	EL	10μF		16V			(for l						0240210 0252813		6800pF 3.3μF	±1076	50V
C221	0208692	CD	220pF	±5%	50V	o C704	0252831		100μF		50V	1	C940	0252531		100μF		16V
C20.1	0252521		100 E		1637	C7051 P	0252632	1 '	ZS, KS)   220μF		25 V	ı	-		EL	10μF		16V
C301 C302	0252531	CD	100μF 0.01μF	±10%	16V 25V	* C706LR	i	ı	47μF		35V	ı	C942LR	0240216		0.022µF	±10%	
C302	0240212	1	, ,	±10%		o C706LR	1	1	47μF		25 V	١	C943LR	0240218	CD	0.033μF	±10%	25 V
C304	0240204		2200pF		25 V	* C707LR	1	EL	1000μF		35 V	l	C944LR	0240217	CD	0.027μF	$\pm 10\%$	
C305	0240204	1	2200pF			o C707LR	1	EL	1000μF		25 V	ı	C945LR		EL	$3.3\mu$ F		50V
C306	0252813	ı	3.3μF		50V			(for l	. ′			ı	C946		EL	10μF		16V
C307	0252813		$3.3\mu$ F		50V	o C707LR	0252741				35 V	ı	C947	0240200	CD	1000pF	±10%	25 V
C308	0268444		470pF	±5%	100V	C7001 B	0276011		ZS, KS)	±100/	501/	1	C0711 B	0252521	БТ	10E		16V
C309	0252802	l .	$0.22\mu$ F		50V	CIUOLK	02/0011	MIF	0.1μΓ	±10%	30 4		C971LR	0252521		10μF 10μF		16V
C310	0252811		lμF		50V	C801	0244173	CD	0.022μϜ	+80%	50V			0232321		3300pF	+10%	
C311	0275015	l .	0.047μF	±10%	50V	~~	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-20 /0	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		C974	0244163		2200pF	+80%	50V
C312	0252805	EL	$0.47\mu$ F		50V	C804	0244173	CD	0.022µF	+80%	50V	ľ	C975	0252521		10μF	-2070	16V
C401LR	0208692	CD	220nF	±5%	50V	* C805	0252842		2200μF	20	50V	1						
C401LR				±5%	50V	o C805	0252742				35 V	ı	C981LR	0240200		1000pF	$\pm 10\%$	25 V
CHILI	0200072	(for 2		2070				(for l				1	C991	0252625		47μF	±10%	
C402LR		EL	10μF		16V	o C805	0252842				50V			0208692			±5%	50V
C402LR	0252521				16V	C806	0244173	CD	ZS, KS)  0.022μF	+80%	50V		C993	0274014		3300pF		1
	0253335	(for 2			( 337	₹	244173	1	δ.022μ1	-20 /0	~~		C994	0209723	CD	470pF	±10%	50V
C404LR					6.3V	C808	0244173		0.022μF	+80%	50V							
C404LR	0232223	(for 2			6.3V	C809	0252541	ı	1000μF	20	16V							
C405LR	0240211			±10%	25 V	C810	0252535		470μF		16V							
- · · · · · · ·			ept KS)		'	C811	0252535		470μF		16V							
CANSID	0240212	CD	0.01µF	±10%	25 V	C812	0252635	EL	470μF		25 V							
- C403LR	0210212	(for I																

omarked parts used for only T-22L, T-21L, \*marked parts used for only T-55L, T-51L.

No.	YMBOL	PART		DESC			SYMBOL	PART	T			1-55L, 1-5	SVMPOL DART			ECCURTION			
ROBEL   1296-10   C   2001   258   ROBILAR   ROBEL	No.				RIPTIC	N	No.	No.						No.	No.	ļ	DESC	RIPTIO	N
ROPING   12960   CF   1200   15%   SEDICAP   ROPING   R				т			Dener D	ı	1	1					1		1		SRD1/4I
ROSS   1925   CF   2700				1			D COST D	1		1		1			1		1		SRD1/4I
ROPOLE   1928-00   1928-				1		1	DECOLD	1		1					1	1	1		SRD1/41
R151   012958   CF   300				1			D COOL D	ı	ı	1					į.	1			SRD1/4I
R152   012960   CF   10.4   5.5%   SRD1/4P   R152   012965   CF   470.4   5.5%   SRD1/4P   R152   012965   CF   470.4   5.5%   SRD1/4P   R155   012957   CF   470.4   5.5%   SRD1/4P   R156   012950   CF   10.4   5.5%   SRD1/4P   R157   SRD1/4P   SRD1				1				0129637				SRD1/4P	* R	924LR	0129631	CF	1		SRD1/4I
R152 012958] CF 2004 55% SRD1/4P (R154 012954) CF 2470 45% SRD1/4P (R154 012954) CF 470 45% SRD1/4P		1 1					1								0129617	1	4.7kΩ	±5%	SRD1/4F
No.	R152	0129583	CF	820Ω	±5%		* ROTOLR	0129647				SRD1/4P				1	1		SRD1/4I
R155 012957 CF 5070 ± 588 DR1/4P R155 012957 CF 5070 ± 588 DR1/4P R155 012957 CF 470 ± 598 SRD1/4P R202 012950 CF 1470 ± 598 SRD1/4P R203 012957 CF 470 ± 598 SRD1/4P R204 012950 CF 1470 ± 598 SRD1/4P R204 012950 CF 1470 ± 598 SRD1/4P R205 012950 CF 1500 ± 598 SRD1/4P R205 012950 CF 1500 ± 598 SRD1/4P R205 012950 CF 1500 ± 598 SRD1/4P R205 012950 CF 1840 ± 598 SRD1/4P R205 012950 CF 1200 ± 598 SRD1/4P R205 012950 CF 1000 ± 598 SRD1/4P R205 012950 CF 1300 ± 598 SRD1/4P R205 012950 CF 1200 ± 598 SRD1/4P R201 012950 CF 1300 ± 598 SRD1/4P R201 01295				1				0129647				SRD1/4P			I	1	1		SRD1/4F
R155 0 12597 CF 4701 ±5% SRD1/4P R303 L 025967 CF 4704 ±5% SRD1/4P R303 L 025967 CF 4704 ±5% SRD1/4P R303 L 025967 CF 4704 ±5% SRD1/4P R303 L 025967 CF 1 Inh ±5% SRD1/4P R305 L 025967 CF 1 Inh ±5% SRD1/4P R306 L 025967 CF 1 In				1			R6111R	!					T 1\		1		1		SRD1/4F SRD1/4F
R020   129909   CF   12Ah 15%   SRD1/4P   R030   012997   CF   470h 15%   SRD1/4P   R040   12997   CF   470h 15%   SRD1/4P   R050   012996   CF   130h 15%   SRD1/4P   R051LR   012996   CF   130h 15%   S				1									II ^`		1	1	1		SRD1/4F
ROBING   19960   CF   1264 ±9% SRDI.4pk   Robista   19961   CF   276. ±9% SRDI.4pk   Robista   19960   CF   166. ±9% SRDI.4pk   Robista   19960   CF   1	K130	0129347	CF	4/52	±3%	SKD1/4P	KOI3LK	I	l .	1		SRD1/4P				1	1		SRD1/41
ROBERT   1995	R202	0129609	CF	2.2kO	+5%	SRD1/4P		ı				1			1	1	I .		SRD1/4F
R205   012960   CF   Inf. ±5%   SRD1/4P   R206   012963   CF   102961   CF   SRD1/4P   R206   012963   CF   1020 ±5%   SRD1/4P   R208   012960   CF   1020 ±5%   SRD1/4P   R209   012960   CF   1020 ±5%   SRD1/4P   R212   0129605   CF   1020 ±5%   SRD1/4P   R212   012960		1 1		1				ı		1		1				1 .	220kΩ	£5%	SRD1/4F
Page	R204	0129601	CF	1kΩ	±5%	1 .	II KOIDI.K	0129633	CF	13K12	±3%	SRD1/4P				1	1		SRD1/4F
R208	R205	1 1	CF	150Ω	$\pm 5\%$	SRD1/4P	R6511 R	0129639	CF	2210	+5%	SRD1/4P	11		i	1	į.		SRD1/4F
ROOP 012956 CF 200 ±5% SND1/4P (R310 012956) CF 1000 ±5% SND1/4P (R310 012							R652LR	I	1	1					1	1	ı		SRD1/4F
R210   012963   CF   1001 ±5%   SRD1/4P   R211   012963   CF   1501 ±5%   SRD1/4P   R212   012965   CF   1501 ±5%   SRD1/4P   R213   012965   CF   1501 ±5%   SRD1/4P   R213   012965   CF   1501 ±5%   SRD1/4P   R213   012965   CF   1201 ±5		1 1								1							1		SRD1/4F
R212 0129605 CF 15kn ±5% SRD1/4P R212 0129605 CF 15kn ±5% SRD1/4P R212 0129605 CF 15kn ±5% SRD1/4P R213 0129675 CF 390n ±5% SRD1/4P R214 012967 CF 47kn ±5%		1 1		1					ı	1					1	ı	1		SRD1/4F SRD1/4F
R212 0129575 CF 3900 ±5% SRD1/4P R213 0129575 CF 1000 ±5% SRD1/4P R213 012957 CF		1 1		1			* R655LR	0129621	CF	6.8kΩ	±5%	SRD1/4P			1	1			
R313 0129575 CF 3900 ±5% SRD1/4P R5651R 0129661 CF 6.8R± 55% SRD1/4P R302 0129617 CF 4.7R± 55% SRD1/4P R303 0129637 CF 1.8R± 1.5% SRD1/4P R303 0129661 CF 1.0R± 55% SRD1/4P R304 0129661 CF 1.0R± 55% SRD1/4P R305 0129661 CF 1.0R± 55% SRD1/4P R306 0129661 CF 1.0R± 55% SRD1/4P R307 0129601 CF 1.R± 55% SRD1/4P R309 012965 CF 1.5R± 55% SRD1/4P R301 0129565 CF 1.5R± 55% SRD1/4P R301 0129565 CF 1.0R± 55% SRD1/4P R301 0129561 CF 1.R±										1			11			1			SRD1/4F
R301   0129617   CF   47kn ±5%   SRD1/4P   R657LR   0129619   CF   5.6kn ±5%   SRD1/4P   R657LR   012961   CF   10kn ±5%   SRD1/4P   R657LR   012961   CF   10kn ±5%   SRD1/4P   R657LR   012962   CF   8.2kn ±5%   SRD1/4P   R667LR   012962   CF   10kn ±5%   SRD1/4P   R667LR   012962   CF   10kn ±5%   SRD1/4P   R701LR   012962   CF   10kn ±5%   SRD1/4P		1 1		1					l .	1		SRD1/4P	R	941	0129643	I			SRD1/4F
R301   0129617   CF   4.7km ±5%   SRD1/4P   R303   0129617   CF   4.7km ±5%   SRD1/4P   R304   0129617   CF   2.2km ±5%   SRD1/4P   R304   0129661   CF   100km ±5%   SRD1/4P   R305   0129661   CF   100km ±5%   SRD1/4P   R306   0129601   CF   100km ±5%   SRD1/4P   R307   0129601   CF   1km ±5%   SRD1/4P   R309   0129565   CF   15km ±5%   SRD1/4P   R301   013926   CF   12km ±5%   SRD1/4P   R301   013926   CF   12km ±5%   SRD1/4P   R301   013926   CF   12km ±5%   SRD1/4P   R301   013926   CF   1km ±5%   SRD1/4P   R301   0129601   CF   1km ±5%   SRD1/4P   R301   0129631   CF   13km ±5%   SRD1/4P   R301   0129631   CF   13km ±5%   SRD1/4P   R301   0129631   CF   13km ±5%   SRD1/4P   R301   0129631   CF   1km ±5%   SRD1/4P   R301   0129631   CF   1km ±5%   SRD1/4P   R301   013295   CF   13km ±5%   SRD1/4P   R301   013295   CF   13km ±5%   SRD1/4P   R301   013295   CF   13km ±5%   SRD1/4P   R301   0129631   CF   1km ±5%   SRD1/4P   R301   0129631   CF   1km ±5%   SRD1/4P   R301	10213	0127373	CI	37012	±3/0	SKD1/41				1			R	943LR	0129639	CF	1		SRD1/4F
R303   0129617   CF   4.7km ±5%   SRD1/4P   R303   0129601   CF   100km ±5%   SRD1/4P   R304   0129661   CF   100km ±5%   SRD1/4P   R305   0129661   CF   100km ±5%   SRD1/4P   R306   0129661   CF   100km ±5%   SRD1/4P   R306   0129601   CF   1.5km ±5%   SRD1/4P   R307   0129601   CF   1.5km ±5%   SRD1/4P   R308   0129601   CF   1.5km ±5%   SRD1/4P   R309   0129565   CF   150m ±5%   SRD1/4P   R309   0129565   CF   150m ±5%   SRD1/4P   R310   0129661   CF   100km ±5%   SRD1/4P   R311   011292   CF   2.7km ±5%   SRD1/4P   R311   011292   CF   2.7km ±5%   SRD1/4P   R311   011292   CF   2.7km ±5%   SRD1/4P   R311   0112960   CF   1km ±5%   SRD1/4P   R310   0129601   CF   1km ±5%   SRD1/4P   R306   CF   100km ±5%   SRD1/4P   R306   CF   130km ±5%   SRD1/4P   R	R301	0129617	CF	4.7kΩ	±5%	SRD1/4P			1	1			11			CF	12kΩ	±5%	SRD1/4F
R304   0129661   CF   100kh ±5%   SRD1/4P   R305   0129661   CF   100kh ±5%   SRD1/4P   R306   0129607   CF   1kh ±5%   SRD1/4P   R307   0129607   CF   1kh ±5%   SRD1/4P   R308   0129605   CF   150kh ±5%   SRD1/4P   R309   0129605   CF   150kh ±5%   SRD1/4P   R301   0129601   CF   1kh ±5%   SRD1/4P   R302   CF   S300h ±5%   SR				1					i	1					1	1 -	1		SRD1/4F
R304   0129661   CF   100kh ±5%   SRD1/4P   R306   0129667   CF   18kh ±5%   SRD1/4P   R307   0129601   CF   18kh ±5%   SRD1/4P   R309   0129605   CF   15kh ±5%   SRD1/4P   R309   0129565   CF   15kh ±5%   SRD1/4P   R309   0129565   CF   15kh ±5%   SRD1/4P   R309   0129665   CF   15kh ±5%   SRD1/4P   R309   0129665   CF   18kh ±5%   SRD1/4P   R309   0129667   CF   100kh ±5%   SRD1/4P   R309   CF   100kh ±5%   SRD1/4P   R30	R303	0129639	CF	22kΩ	±5%	SRD1/4P						1 1			l .	1	1		SRD1/4F
R306   12963   CF   100k1 ±3%   SRD1/4P   R307   12963   CF   15kn ±3%   SRD1/4P   R308   129605   CF   15kn ±3%   SRD1/4P   R309   012965   CF   15kn ±3%   SRD1/4P   R309   012965   CF   15kn ±3%   SRD1/4P   R310   012960   CF   1kn ±3%   SRD1/4P   R301   012960   CF   1kn ±3%   SRD1/4P   R301   012960   CF   1kn ±3%   SRD1/4P   R301   012960   CF   1kn ±3%   SRD1/4P   R302   CF   SRD1/4P   R303   CF	R304	0129661	CF	100kΩ	±5%	SRD1/4P			!	1						ı	1		SRD1/4P
R300   0129601   CF   1km ±5%   SRD1/4P   R309   0129605   CF   1.5km ±5%   SRD1/4P   R309   0129605   CF   1.5km ±5%   SRD1/4P   R309   0129605   CF   1km ±5%   SRD1/4P   R309   0129605   CF   1km ±5%   SRD1/4P   R301   0129605   CF   10km ±5%   SRD1/4P   R301   0129605   CF   10km ±5%   SRD1/4P   R302   CF   SRD1/4P   SRD		1 1		1				i i	I	1			11		1	1			SRD1/4F
R308   0129605   CF   1.5Ω ±5%   SRD1/4P   R309   012965   CF   150Ω ±5%   SRD1/4P   R310   0129601   CF   15Ω ±5%   SRD1/4P   R311   011392   CF   270Ω ±5%   SRD1/4P   R311   011392   CF   270Ω ±5%   SRD1/4P   R311   011392   CF   1κΩ ±5%   SRD1/4P   R301   0129601   CF   1κΩ ±5%   SRD1/4P   R301		, ,		1		1 1					_0 /0				1	1	l .		SRD1/4P SRD1/4P
R309   012956   CF   1500 ±5%   SRD1/4P   R310   012960   CF   1610 ±5%   SRD1/4P		1 1		1			R701LR	0129601	CF	lkΩ	±5%	SRD1/4P			l	1	ı		SRD1/4P
R310   0129601   CF   18\(\overline{\chicklet}{18\(\overline{\overline{\chicklet}{18\(\overline{\overline{\chicklet}{18\(\overline{\overline{\chicklet}{18\(\overline{\overline{\chicklet}{18\(\overline{\overline{\chicklet}{18\(\overline{\overline{\overline{\overline{\overline{\chicklet}{18\(\overline{\o				1			R702LR	0129661	CF	100kΩ	±5%	SRD1/4P			1	-	ı		SRD1/4P
R311				1						120kΩ	±5%	SRD1/4P			1		1		SRD1/4P
RAOILR   0129601   CF   IkΩ   ±5%   SRDI/4P   R704   0129671   CF   270kn ±5%   SRDI/4P   R705kR   0129671   CF   100kn ±5%   SRDI/4P   R706kR   0129643   CF   100kn ±5%   SRDI/4P   R706kR   0129643   CF   100kn ±5%   SRDI/4P   R706kR   0129643   CF   33kn ±5%   SRDI/4P   R706kR   0129643   CF   33kn ±5%   SRDI/4P   R706kR   0129671   CF   390kn ±5%   SRDI/4P   R706kR   0129673   CF   33kn ±5%   SRDI/4P   R706kR   0129673   CF   37kn ±5%   SRDI/4P   R706kR		1 1		1						1		1			I		l		SRD1/4P
0 R401LR   0129601   CF   I I I I I		1 1		}		ı <b>.</b>							R	956	0129631	CF	10 <b>kΩ</b>	±5%	SRD1/4P
R401LR   0129677   CF   470Ω ±5%   SRD1/4P (except ZS)     R402LR   0129661   CF   1000Ω ±5%   SRD1/4P (except ZS)     R403LR   0129661   CF   1000Ω ±5%   SRD1/4P (or ZS)     R403LR   0129583   CF   820Ω ±5%   SRD1/4P (for ZS)     R405LR   0129675   CF   390Ω ±5%   SRD1/4P (for ZS)     R405LR   0129675   CF   390Ω ±5%   SRD1/4P (for ZS)     R406LR   0129643   CF   33ΩΩ ±5%   SRD1/4P (for ZS)     R406LR   0129643   CF   33ΩΩ ±5%   SRD1/4P (for ZS)     R406LR   0129643   CF   33ΩΩ ±5%   SRD1/4P (for ZS)     R407LR   0129621   CF   6.8Ω ±5% (for ZS)     R409   0113295   CF   47ΩΩ ±5% (for ZS)     R409   0113295   CF   47ΩΩ ±5% (for ZS)     R409   0113295   CF   47ΩΩ ±5% (for ZS)     R400LR   0129617   CF   4.7Ω ±5% (for ZS)     R400LR   0129617   C		1 1		1		: I	1			1			* R9	957LR	I	CF			SRD1/4P
R402LR   012961   CF   100k\(\pi \sigma \s							0 P7051 P			1		SKD1/4P			l .	1			SRD1/4P
R402LR   0129661   CF   100kΩ ±5%   SRD1/4P   R707LR   0119029   ME   4.7Ω ±10%   RN1B   RN16   RN2B   R708   RN16   R	R401 LR	0129677			±5%	SRD1/4P				1		1 1					1		SRD1/4P
0 R402LR 012961 CF   100kΩ ±5%   SRD1/4P   (for ZS)	D4021 D	0120661	•		<b>⊥50</b> /	CDD1/4D				1			1			1			SRD1/4P
**R403LR** 0129583 CF												: I			1				SRD1/4P SRD1/4P
* R4031LR         0129583         CF         820Ω ±5%         SRD1/4P           0 R4031LR         0129583         CF         820Ω ±5%         SRD1/4P           0 R4051LR         0129575         CF         390κΩ ±5%         SRD1/4P           0 R4051LR         0129675         CF         390κΩ ±5%         SRD1/4P           0 R4061LR         0129643         CF         33κΩ ±5%         SRD1/4P           0 R4061LR         0129637         CF         18κΩ ±5%         SRD1/4P           0 R4071LR         0129621         CF         18κΩ ±5%         SRD1/4P         R9021LR         0129661         CF         100κΩ ±5%         SRD1/4P         R903LR         0129637         CF <t< td=""><td>K.OZEK</td><td>012,001</td><td></td><td></td><td>_5/0</td><td>31001/41</td><td></td><td>0113293</td><td>CF</td><td>330Ω</td><td>±5%</td><td>SRD1/2P</td><td></td><td></td><td></td><td></td><td></td><td></td><td>SRD1/4P</td></t<>	K.OZEK	012,001			_5/0	31001/41		0113293	CF	330Ω	±5%	SRD1/2P							SRD1/4P
R403LR   0129583   CF   820Ω ±5%   SRD1/4P   (for ZS)     R405LR   0129669   CF   220kΩ ±5%   SRD1/4P   (for KS)     R405LR   0129669   CF   220kΩ ±5%   SRD1/4P   (for KS)     R406LR   0129643   CF   33kΩ ±5%   SRD1/4P   (for ZS)     R406LR   0129643   CF   33kΩ ±5%   SRD1/4P   (for ZS)     R407LR   0129621   CF   6.8kΩ ±5%   (for ZS)     R407LR   0129621   CF   6.8kΩ ±5%   SRD1/4P   (for ZS)     R408LR   0129617   CF   6.8kΩ ±5%   SRD1/4P   (for ZS)     R408LR   0129617   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R409   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R400   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   0113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   O113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   O113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   O113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   O113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   O113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   O113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   O113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)     R401   R409   O113295   CF   4.7kΩ ±5%   SRD1/4P   (for ZS)   SRD1/4P   (	R403LR	0129583			±5%	SRD1/4P	1												SRD1/4P
* R405LR   0129675   CF   390kΩ ±5%   SRD1/4P   * R802   O113371   CF   3.3kΩ ±5%   SRD1/2P   (for KS)   CF   390kΩ ±5%   SRD1/4P   (for KS)   CF   330kΩ ±5%   SRD1/4P   (for KS)   CF   33kΩ ±5%   SRD1/4P   (for BS)	R403LR	0129583			±5%	SRD1/4P						ı <b>ı</b>	o R9	63LR	0129637	CF			SRD1/4P
R405LR   0129669   CF   220kΩ ±5%   SRD1/4P (for KS)   CF   390kΩ ±5%   SRD1/4P (for KS)   CF   390kΩ ±5%   SRD1/4P (for ZS, KS)   CF   333kΩ ±5% (for ZS, KS)   CF   333kΩ ±5%   SRD1/4P (for BS)   SRD1/4P (for BS)   SRD1/4P (for BS)   SRD1/4P (for ZS, KS, KS)   SRD1/4P (for ZS, KS, KS, KS, KS, KS, KS, KS, KS, KS, K				. ,				0119511			±10%		* R9	964LR	0129639	CF	$22k\Omega$	±5%	SRD1/4P
0 R405LR 0129675 CF   390kΩ ±5% (for ZS)						SRD1/4P	<b>★ R802</b>	0113371			+5%	SPD1/2D	o R	965LR	0129631	CF			SRD1/4P
0 R405LR 0129675 CF   390kΩ ±5%   SRD1/4P (for ZS)   SRD1/4P (for Z	K4U3 LK	0129009			±3%	SKD1/4P	o R802						* R9	065LR	0123609	CF			SRD1/4P
* R406LR   0129643   CF   33kΩ ±5%   SRD1/4P   (for BS)   R803   0129573   CF   330Ω ±5%   SRD1/4P   (for BS)   R803   0129601   CF   100kΩ ±5%   SRD1/4P   R902LR   0129661   CF   100kΩ ±5%   SRD1/4P   R902LR   0129601   CF   1.5kΩ ±5%   SRD1/4P   R902LR   0129603   CF   1.2kΩ ±5%   SRD1/4P   R902LR   0129603   CF   1.2kΩ ±5%   SRD1/4P   R905LR   0129603   CF   1.2kΩ ±5%   SRD1/4P   R906LR   0129637   CF   1.5kΩ ±5%   SRD1/4P   R907LR   0129631   CF   330kΩ ±5%   SRD1/4P   R906LR   0129637   CF   1.5kΩ ±5%   SRD1/4P   R907LR   0129631   CF   330kΩ ±5%   SRD1/4P   R906LR   0129637   CF   1.5kΩ ±5%   SRD1/4P   R907LR   0129631   CF   330kΩ ±5%   SRD1/4P   R906LR   0129631   CF   330kΩ ±5%   SRD1/4P   R909LR	R405LR	0129675			+5%	SRD1/4P	1,002	0110071				SKD1/21	* R9	066LR	0129882	CF	3.3kΩ	±5%	SRD1/4P
* R406LR         0129643         CF         33kΩ         ±5%         SRD1/4P         R803         0129573         CF         330Ω         ±5%         SRD1/4P         R803         0129573         CF         330Ω         ±5%         SRD1/4P         R803         0129573         CF         130Ω         ±5%         SRD1/4P         R901LR         R901LR         R902LR         0129661         CF         100Ω         ±5%         SRD1/4P         R901LR         R901LR         R901LR         R901LR         R901LR         R901LR         R901LR         R901LR         R901LP         R901LR         R901LP         R901LP         R901LR         R901LP         R901LR         R901LR         R901LP         R801LR         0129601         CF         16.8kΩ         ±5%         SRD1/4P         R901LR         R901					- / 0		o R802	0129601	CF	1kΩ		SRD1/4P	D.	7110	0120661	CE	10050	+50/	SRD1/4P
**R407LR** 0129637 CF   18kΩ ±5%   SRD1/4P   (for ZS)							Docc	0100								1			SRD1/4P
* R407LR   0129637   CF   18kΩ ±5% (for BS)   SRD1/4P (for BS)   SRD1/4P (for BS)   CF   6.8kΩ ±5% (for ZS, KS, SA)   CR 407LR   0129621   CF   6.8kΩ ±5% (for ZS)   SRD1/4P (for ZS)	R406LR	0129643			±5%	SRD1/4P	R803	0129573	CF	330Ω	±5%	SRD1/4P							SRD1/4P
* R407LR   0129621   CF   6.8kΩ ±5%   (for BS)   CF   6.8kΩ ±5%   (for ZS, KS, SA)   (For ZS, KS, SA)   (For ZS)   (For	0/071 P	0120627			+50/	CDD1/4P	POOLED	0120661	CF	100:0	+50/	CDD1/4P	"	-					
* R407LR   0129621   CF   6.8kΩ ±5%   (for ZS, KS, SA)   CF   6.8kΩ ±5%   (for ZS, KS, SA)   CF   6.8kΩ ±5%   (for ZS)   SRD1/4P   R905LR   0129637   CF   (for ZS)   SRD1/4P   R906LR   0129638   CF   (for ZS)   SRD1/4P   R906LR   (for ZS)   SRD1/4P   R910LR   (for ZS)   SRD1/4P   SRD1/4P   R910LR   (for ZS)   SRD1/4P   SRD1/4P   SRD1/4P   R916LR   (for ZS)   SRD1/4P   SRD1/4P   SRD1/4P   (for ZS)   SRD1/4P   SRD1/4P   (for ZS)   SRD1/4P   SRD1/4P   SRD1/4P   (for ZS)   SRD1/4P   SRD1/4P   (for ZS)   SRD1/4P   SRD1/4P   SRD1/4P   (for ZS)   SRD1/4P	N4U/LK	0129037			<b>T3%</b>	SKD1/4P				1			* R9	81LR	0129579	CF	560Ω	±5%	SRD1/4P
0 R407LR 0129621 (for ZS, KS, SA) CF   6.8kΩ ±5% (for ZS)   SRD1/4P	R407LR	0129621			±5%	SRD1/4P	1						0 R9	81LR	0129603	CF			SRD1/4P
R407LR   0129621   CF   6.8kΩ ±5%   SRD1/4P   R906LR   0129637   CF   18kΩ ±5%   SRD1/4P   R907LR   0129637   CF   120Ω ±5%   SRD1/4P   R908LR   0129609   CF   2.2kΩ ±5%   SRD1/4P   SRD1/4P   R908LR   0129601   CF   470Ω ±5%   SRD1/2P   SRD1/2P   SRD1/2P   SRD1/2P   SRD1/4P   SRD1/						31.00 1, 11						: 1							
* R408LR 0129617 CF   4.7kΩ ±5% SRD1/4P   R907LR 0129681 CF   680Ω ±5% SRD1/4P   R908LR 0129690 CF   2.2kΩ ±5% SRD1/4P   R908LR 0129690 CF   2.2kΩ ±5% SRD1/4P   R909SLR 0129690 CF   2.2kΩ ±5% SRD1/4P   R909SLR 0129690 CF   3.3kΩ ±5% SRD1/4P   R999SLR 0129690 CF   3.3kΩ ±5% SRD1/4P	R407LR	0129621			±5%	SRD1/4P	1 1						1	- 1					SRD1/2P
* R408LR 0129617 CF   4.7kΩ ±5% SRD1/4P (for ZS)	1007 -	01000								1						1			SRD1/2P
* R409								,		680Ω	±5%	SRD1/4P							SRD1/2P
* R409         0113295         CF         470Ω         ±5%         SRD1/2P         R910LR         0129661         CF         100κΩ         ±5%         SRD1/4P         R910LR         0129661         CF         100κΩ         ±5%         SRD1/4P         R995         0129561         CF         100κΩ         ±5%         SRD1/4P         R912         0129630         CF         1.5kΩ         ±5%         SRD1/4P         R913         0129631         CF         33kΩ         ±5%         SRD1/4P         R915LR         0129631         CF         33kΩ         ±5%         SRD1/4P         R915LR         0129631         CF         100kΩ         ±5%         SRD1/4P         R915LR         0129631         CF         100kΩ         ±5%         SRD1/4P         R915LR         0129631         CF         100kΩ         ±5%         SRD1/4P         R916LR         0129631         CF         100kΩ         ±5%         SRD1/4P         R916LR         R916LR         0129631         CF         100kΩ	N4U8 LK	012901/			±3%	SKD1/4P							1			- 1			SRD1/2P SRD1/2P
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R409	0113295			±5%	SRD1/2P				ı									SRD1/2P SRD1/4P
* R410LR 0129601 CF   $1 k\Omega \pm 5\%$ SRD1/4P o129601 CF   $1 k\Omega \pm 5\%$ SRD1/4P (for ZS)   $R912$ 0129643 CF   $33k\Omega \pm 5\%$ SRD1/4P (for ZS)   $R913$ 0129643 CF   $33k\Omega \pm 5\%$ SRD1/4P (for ZS)   $R913$ 0129643 CF   $33k\Omega \pm 5\%$ SRD1/4P (for ZS)   $R913$ 0129661 CF   $100k\Omega \pm 5\%$ SRD1/4P   $R913$ 0129661 CF   $100k\Omega \pm 5\%$ SRD1/4P   $R913$ NR014LR 0129661 CF   $100k\Omega \pm 5\%$ SRD1/4P   $R915$ LR 0129661 CF   $100k\Omega \pm 5\%$ SRD1/4P   $100k\Omega \pm 5\%$ SRD1/		1 1		1									Ι "	-	3.27501	Ç1	10016	_5/0	J
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										ı			[						
R410LR   0129601   CF   11812   ±5%   SRD1/4P   R914LR   0129661   CF   100kΩ ±5%   SRD1/4P   R915LR   0129661   CF   100kΩ ±5%   SRD1/4P   R915LR   0129661   CF   100kΩ ±5%   SRD1/4P   R916   0129639   CF   22kΩ ±5%   SRD1/4P   IC301   2369631   AN7213A   AN7213A   CF   326063LR   0129675   CF   390kΩ ±5%   SRD1/4P   SRD1/4P   SRD1/4P   R917LR   0129613   CF   3.3kΩ ±5%   SRD1/4P   SRD1/4P   IC401   2387022   μPC1228HA		0129601	CF	1kΩ		SRD1/4P						i I			ICE 9 7	TDA P	CICTO	De	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	R410LR				±5%	SRD1/4P	1 3			1			$\vdash$						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		1 1				L													
R602LR 0129601 CF 1811 ±3% SRD1/4P * R917LR 0129613 CF 3.3kΩ ±5% SRD1/4P * R017LR 0129613 CF 3.3kΩ ±5% SRD1/4P * IC401 2387022 μPC1228HA										ı									
R003LR   01296/5   CF   390k\(1 \pm 5\)   SRD1/4P    P0181 P   0120627   CF   1810   +5\(\pm \)   SRD1/4P    * 1C401   238/022   \(\pm \)PC1228HA															2369631	AN74	10N		
R6041 P 0120677 CE 47010 +504 CDD1/4D R510LR 0127037 CF 10814 ±370 SRD1/4P 0 IC401 2207022DC122011A (C., 75												SRD1/4P							3
R604LR 0129677 CF 470kΩ ±5% SRD1/4P + R919LR 0129581 CF 680Ω ±5% SRD1/4P 0129677 CF 0	WUTLK	01290//	CF	+/UK12	⊥370	3KD1/4P	* R919LR	0129581	CF	680Ω	±5%		1 10	7U1	230/022	μΡСΙ	446HA	(ior ZS	''

omarked parts used for only T-22L, T-21L, \*marked parts used for only T-55L, T-51L.

SYMBOL No.	PART No.	DESCRIPTION	SYMBOL No.	PART No.	DESCRIPTION	SYMBOL No.	PART No.	DESCRIPTION
* IC701	2388411	STK4392		VARIAB	LE RESISTORS	J101	2688461	3P terminal plate
o IC701	2300051	STK4362 (for ZS, KS)	RT301	0150058	10kΩ-(B) (VCO)	J701	2657831	Speaker socket
o IC701	2388401	STK4332 (for BS)			50kΩ-(B) (P/B OUT)	J702	2677863	Head phone jack
					100kΩ-(B) (VIAS)	J981LR	2677863	MIC jack
IC901	2388891	BA3408	KISSILK	0130901	TOOK 1-(B) (VIAS)			
IC902	2388891	BA3408	RV601	0166832	250kΩ-(W) (BALANCE)	S001 A	2639869	Power switch (Power)
* IC921	2387401	HA12047	11		100kΩ-(B) (MAIN VOL.)	S601		5 keys push switch
IC941LR	2387051	LB1403	KV002LF	0100030	100k12-(B) (MAIN VOL.)	}	>	(FUNCTION)
		_	RV6511 B	0166831	100kΩ-(B) (TONE VOL.)	'	(	}
		2SC460 © _	* RV652LR			S605	2600271	
		2SC458PG ©	11	0166831	$100k\Omega$ -(B) (TONE VOL.)			(FUNCTION)
Q602LR	2328285	2SC458PG ©	* RV654LF			S606	2600283	
Q801	2317822	2SD880 Y			100kΩ-(B) (TONE VOL.)			(LOUDNESS SW.)
Q901LR	2329453	2SC945PA	KV055LK	0100031	100k12-(B) (TONE VOL.)	* S901		Slide switch (R/P)
<b>≠</b> Q902LR	2329453	2SC945PA	RV901	0166025	2kΩ-(A) (REC VOL.)	o S901		Slide switch (R/P)
Q903LR	2328285	2SC458PG (C)	N V 901	0100033	ZKIZ-(A) (REC VOL.)	* S902	2600281	
Q904LR	2329453	2SC945PA	1					(TAPE POSITION)
		2SC945PA	I	J		o S902	2600282	2 keys push switch
* Q952	2329453	2SC945PA	C	OILS &	TRANSFORMERS			(TAPE POSITION)
Q953	2329453	2SC945PA	L101	2135262	FM RF coil	* S904	2600283	
			L102	2135493	FM OSC coil	5005	2627521	(DOLBY NR)
			L151		Ferite antenna coil	S905	2627531	Slide switch
		DIODES	1 2.3.	2131412	Terric antenna con	F001 1		
		DIODES	L201	2227864	Peaking coil			Fuse-T2A 250V
D001	2339101	SLP-260C	L201	2227889	Peaking coil			Fuse-T630mA 250V
D101	2337011	1S2076	L901LR	2227991	Choke coil (3.3MH)			Fuse-T250mA 250V (for BS)
			L991		Choke coil (100µH)	o F001 A	2727492	Fuse-T400mA (for ZS, KS)
D301	2337011	1S2076		2221333	Choke con (100µ11)		2126022	
<b>★</b> D801	2337461	S4VB	T101	2135651	FM IF coil			Bias trap coil
o D801	2338162	S2VB	T151		LW OSC coil			Dolby filter
D802	2339001	DS135D	T152		MW OSC coil	CP991		Bias OSC block
₹	- }	}	1132	2133200	WW OSC CON			3 × 8 bind head screw
D804	2339001	DS135D				ŀ		3×14 DT bind screw
								Lock washer
	2337011	1 S2076		MISC	ELLANEOUS	<u> </u>		Phono cable
- }	- }	}	BPF101	2136612	FM band pass filter	0		Heat sink plate (for BS)
D959	2337011	1S2076	CF201	2137583	Ceramic filter	, T		Heat sink plate
<b>◆ D</b> 960	2337011	1S2076				0		Heat sink plate (for KS, ZS)
D961	2337011	1S2076	CF202	2154761	Ceramic filter	•		Heat sink plate (for ZS)
* D962	2337011	1S2076	CF203	2137583	Ceramic filter			Heat sink T
D963	2337011	1 S2076		2137303	Ceramic inte.			Heat sink T
			CT151	0283130	Trimmer capacitor	1		LED holder (A)
D971LR	2339101	SLP-260C	CT152	0283113	Trinmer capacitor		2749744	Wire antenna (for ZS)
₹	- }	}	CT153	0283130				
D975LR	2339102	SLP-160C	CT154	0283130	Trimmer capacitor			
D976	2339102	SLP-160C	CT101	0282113	Variable capacitor			
			CT101	0282113	Variable capacitor			
<b>ZD</b> 801	2337182	HZ-16		0202113	variable capacitor			
* ZD901	2337292	HZ-9B	CV101	0282113	Variable capacitor			,
	2337431		CV101	0282113	Variable capacitor	l i		
			CV102 CV151	0282113				
			CV151 CV152	0282113	Variable capacitor Variable capacitor			İ
ļ			CV132	0202113	variable capacitor			
1								



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